TWENTY-THIRD CATALOGUE

OF THE

ARKANSAS INDUSTRIAL UNIVERSITY,

FAYETTEVILLE, WASHINGTON COUNTY, ARK.

MEDICAL AND LAW SCHOOLS AT LITTLE ROCK, BRANCH NORMAL COLLEGE AT PINE BLUFF,

1895 AND 1895-'96.

ANNOUNCEMENTS FOR 1896-'97.

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1896
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378.767 v.23-29 Calendar, 1896='97.

FAYETTEVILLE.

1806

September 16-First term begins. September 16=19—Entrance examinations. November 26-Thanksgiving, a holiday.

1807

January 22-First term examinations begin. January 30-First term ends. February I-Second term begins. June 3-Decoration day, a holiday. June 4-Second term examinations begin. June 13-Baccalaureate sermon. June 17-Annual commencement.

MEDICAL DEPARTMENT, LITTLE ROCK,

1806

October 1-Preliminary course begins. November 2-Regular session begins. 1897 April 30-Session ends.

· LAW DEPARTMENT, LITTLE ROCK,

1896 October 1-Fall term begins. January 30-Fall term ends. 1807 February I-Spring term begins. June 1-Spring term ends.

BRANCH NORMAL COLLEGE, PINE BLUFF.

1806 September 7-Session begins. 1807 June 5-Session ends.

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CEORGE LINCOLN TELLER, M. S., Chemist.

JOHN TURNER STINSON, B. S., Horticulturist.

JOHN FRANKLIN MOORE, B. S., Assistant Chemist.

GEORGE B. IRBY, B. A., Assistant Agriculturist at Newport.

C. L. NEWMAN, B. S., Assistant Agriculturist at Camden.

The University and the State

The University is at the head of the public educational system of the State of Arkansas. It seeks to foster the higher educational interests of the State, broadly and generously interpreted, and to make provision for the demands of advanced scholarship in as many lines as its means will permit. It is the aim of its Faculty and Board of Trustees, from year to year, to bring it into still closer articulation with the public schools of the State, and in connection with them to afford to all the youth of either sex ample facilities for liberal education in literature, science and the industrial arts, and for the professional studies.

Through the aid received from the United States and from the State of Arkansas, the University is enabled to offer free tuition, except in the studies of Law, Medicine, Music and Art, and thus to open wide her doors to all seekers of learning.

The institution was established in accordance with an act of Congress making a grant of land for its benefit, and in accordance with an act of the General Assembly of this State carrying out the object of said grant.

LOCATION.

The University, except its Medical and Law Schools and Branch Normal College, is located at Fayetteville, Washington County, in northwestern Arkansas. It is therefore situated in the heart of the Ozark Mountains, and is more than sixteen hun-

dred feet above the sea level. The location is thought to be unsurpassed in salubrity of climate, beauty of surrounding scenery, fertility of soil, variety and perfection of agricultural and horticultural productions, and in the morality and intelligence of its people.

Students may reach Fayetteville from both the north and the south by the Texas branch of the St. Louis and San Francisco Railroad, now running three trains daily each way, and connecting on the south with the Little Rock and Fort Smith Railroad at Van Buren.

BUILDINGS.

UNIVERSITY HALL.

This is a brick structure with cut stone trimmings and a stone foundation. It is four stories in height above the basement. It consists of a front building 214 feet in length and two wings, each 124 feet in depth, the whole forming three sides of a quadrangle. This building contains a large number of class rooms, Chapel, Library and Reading Room, separate Study Halls for the boys and girls of the Preparatory Department, Armory, Magazine, Band Room, Laboratories for Engineering, Biology and Geology, Music and Art Rooms, President's and Commandant's Offices, Natural History Museum, Examination Hall, Literary Society Halls, etc., in all seventy rooms, together with broad corridors and stairways. The building is heated mainly by steam, lighted by electricity, and supplied with water from the city water works.

SCIENCE HALL.

This building, designed especially for the departments of Chemistry and Physics, was erected in 1893; it is a substantial two-story brick building 50x60 feet. On the first floor are the lecture rooms of the two departments, the physical laboratory and store-room, and also the private laboratory of the professor in charge. On the second floor are the chemical laboratories, including a laboratory for general chemistry, a laboratory for qualitative analysis, and a laboratory devoted to quantitative analysis, also a store-room for chemical supplies, a weighing room, and a hallway. The building is supplied with gas and water and with the best modern appliances for technical work. It will accommodate about a hundred students.

DORMITORIES.

The North Dormitory is a two-story frame building. It contains a dining hall, kitchens, store-rooms, and on the second floor a number of rooms for students.

The South Dormitory is a substantial and handsome brick building, three stories high and containing over forty rooms. It is favorably located with a view to the health of the occupants, convenience of access to University Hall, and sightliness of appearance on the grounds. The rooms are large, well ventilated and lighted, and open into broad corridors extending lengthwise through the building. From a wide veranda in front there are three entrances to the building. There are also two rear entrances, and on the third floor a suite of rooms fitted up for an infirmary. Through the generosity of the ladies of Fayetteville, this suite of rooms has during the present year been thoroughly equipped.

AGRICULTURAL BUILDINGS.

The building of the Agricultural Experiment Station is of brick, one story in height. It contains the office of the Director; the laboratories of the Chemist, Horticulturist and Veterinarian; the Museum and several commodious store-rooms. Belonging to the Department of Agriculture are a large barn, stock shed, dairy house, fruit house, and other necessary out buildings.

THE SHOPS.

The old shop building erected in 1889, was totally destroyed by fire on the night of April 4, 1805. The machinery, excepting boilers, was almost a total loss. Plans for a new building were at once begun and before the year closed the new building was completed. It is of brick with stone foundation and iron roof, with a floor space of 8900 square feet, whereas the old building contained but 7600 square feet. The building provides a wood room 80x40, a foundry 35x40, forge shops 32x40, machine shop 40x48, and boiler room 32x35. Besides the main building is a brick building 15x25, divided into two rooms, without communication, one of which is for office purposes and the other for the storage of oil and paint; and a frame coal bin 12x30, covered with iron and accessible to teams from either

side. The new buildings are heated by steam and provided with city water and fire hose. When fully equipped they will accommodate about one hundred students in class work at one time. The grading for foundations, and the larger part of the wood work and painting, were done by students.

LIBRARY.

The Library occupies the north wing of the main building, second floor. It now contains 7000 volumes, with numerous pamphlets, maps, charts, etc. Shelves are provided for 14,000 volumes, with room for expansion.

The alcoves are separated from the library hall by an iron railing; and only advanced students are permitted to enter and to have direct access to the shelves. The general reference works, however, are outside the railing.

The Dewey decimal system of classification and the Cutter book-numbers are used, thereby simplifying, to a great degree, the circulation of books and the general care of the Library.

The Reading Room contains, on Athenæum newspaper files, nearly all the papers published in Arkansas, and also the St. Louis and Memphis dailies.

The leading high-class periodicals (including magazines, reviews and various technical monthlies) are regularly taken, and are bound as they accumulate. This vast fund of current literature is rendered more useful and accessible by "Poole's Complete Index" to periodic literature from 1802 to the present time.

Among the works of general reference in the Library are all the best encyclopedias and dictionaries.

The card catalogue in preparation will facilitate reference and will greatly increase the usefulness and popularity of the Library.

The privileges of both Library and Reading Room are free to all students.

THE ARMORY.

The Armory is a large, well lighted room, 60x80 feet, situated in the basement of the north wing of the main building. It is substantially fitted up with arm racks, compartments for equipments, and all other necessary conveniences. Two other rooms are fitted up for use of the Military Department, and are used for band-room and store-room.

The equipment of the Department consists of two hundred and seventy-five Springfield Cadet Rifles of the same model as those used at the United States Military Academy at West Point, two hundred and seventy-five sets of infantry equipments, twenty-one cadet swords, West Point pattern, National color, flags, signal equipment, tents, ammunition, etc., and a superior set of band instruments.

The arms and equipments are furnished the University by the General Government, and the tents are loaned the Department by the State. The other equipments have been purchased by the University and belong to the Military Department. The equipment is sufficient for a batallion of three hundred and ninety-five cadets.

MUSEUMS.

The University has two Museums which are of great value in furnishing materials for the illustration of scientific studies and of the industrial arts.

MUSEUM OF NATURAL HISTORY.

The Museum occupies the fourth floor of the north wing of the main building. Adjoining the corresponding room in the south wing are two rooms, one being used for the storage of alcoholic specimens, the other for taxidermy. The collections in the Museum at present comprise the following:

200 birds and mammals, 80 species.

200 reptiles and amphibians, 40 species.

1500·fishes, 350 species.

1000 insects and other invertebrates, 200 species.

18 skeletons.

3500 plants, 1500 species.

1500 fossils, 230 species.

400 minerals, 200 species.

150 specimens of rocks representing about 100 varieties of building and ornamental stones.

A few archæological specimens, also a few anatomical and physiological preparations.

Except fishes, invertebrates, minerals, and fossils, most of our collections are from Arkansas.

Professor Meek has deposited in the Museum his private collection of about 250 species, consisting mostly of the lower vertebrates.

Major Earle has deposited in the Museum his large collection of minerals, fossils, war curios, etc.

This collection was formerly deposited in Cane Hill College.

Our aim is to make the Museum of more practical and educational value, and to this end we invite the co-operation of the people of the State in adding to our collections in one or more directions indicated below:

- 1. An exhibition of valuable rock materials used in construction, architecture, and the arts.
- 2. An exhibition of native ores, with specimens illustrating the metallurgy of useful metals.
 - 3. Collections of plants and animals of the country, including fossil species.
 - 4. Historical and archæological collections. The Museum will gratefully acknowledge donations of various objects, and the donors may be sure that anything of value sent to it will be carefully preserved and duly credited to the donor. Collections in the hands of private parties are likely to be soon scattered or spoiled through improper care and handling. The Museum is now prepared to receive collections on deposit, and to preserve and display them under the owner's name until called for. In this way owners of interesting collections are usually much more certain of having their collections permanently preserved, and the collections will be seen by more people and become more useful

Through the kindness of the Frisco and Eureka Springs Railways the curator has been much aided in making collections in northwestern Arkansas.

While our Museum is most important on account of its educational value, at the same time it serves an important purpose in representing the resources of this State. Any donations or aid in making collections for the Museum will be highly appreciated.

INDUSTRIAL MUSEUM.

Among the facilities for instruction contained in the equipment of the University, may be mentioned:

A Dean steam pump with air chamber, water and steam cylinders, and valve chambers sectioned, so that a student may see the working parts.

A Cameron steam pump with the steam cylinders sectioned.

A Blake steam pump in full working order.

Two small horizontal, and one vertical steam engine made by the students in the shop.

A fire hydrant in working order.

A set of three successive portions of plate from a boiler showing effect of scale in producing overheating and bagging.

Samples of articles of manufacture form a large part of the collection, and are found to be of great service in acquainting students with the construction of such articles. Among these may be mentioned link belting, steampipe covering, grease cups, injectors in sections, water meters, insulated wire, lead cables, and lubricating oils. Models of a large number of machines of various kinds are also in the collection.

LABORATORIES.

In the laboratories of the University opportunities are afforded for practical instruction in chem-

istry, mineralogy, physics, botany, zoology, entomology, horticulture, and in civil, mechanical and electrical engineering.

CHEMICAL LABORATORIES.

The laboratories for chemical work are four in number and are situated in Science Hall. The Laboratory of General Chemistry is furnished with desks capable of accommodating thirty-five stu-Each desk has a cupboard and two drawers, and is provided with gas and water. The Qualitative Laboratory has desks for sixteen students. Each desk is provided with suitable conveniences for taking care of apparatus and is supplied with all the common reagents. The room is provided with a hood and other equipments usually found in qualitative laboratories. The Quantitative Laboratory has suitable accommodations for eight students and, beside the usual equipments, a Blake ore crusher and an assay furnace. Adjoining the Quantitative Laboratory is the weighing room, which contains two of Becker's best analytical balances, besides a number of less accurate instruments suitable for weighing large quantities of chemicals. The store-room contains all the apparatus and chemicals. The room is in charge of an assistant, who gives out the supplies and keeps the books. This room contains the apparatus for preparing distilled water and has also some space for laboratory work.

MINERALOGICAL LABORATORY.

The work in mineralogy is done in the Qualitative Chemical Laboratory. This arrangement is con-

venient, because the students of this subject also study qualitative analysis. A suitable supply of minerals is provided for study.

PHYSICAL LABORATORY.

The Physical Laboratory is a room 20x40 feet and is provided with large tables suitable for use in performing experiments in general physics and physical measurements. It has also two pillars built up from the ground and independent of the rest of the building for the accommodation of delicate instruments which would otherwise be disturbed by the vibrations of the floor. The store-room of physical apparatus is supplied with instruments suitable for illustrating the principles of physics and for the use of students in practical work.

BIOLOGICAL LABORATORY.

The Biological Laboratory will accommodate about fifty students. It is well equipped with microscopes, microtomes, micro-chemical reagents, and the special apparatus for bacteriological work. A large aquarium furnishes means for the preservation of living animals for classes in zoology. All the apparatus necessary for the collection, mounting and preservation of plants and insects is supplied in abundance. Each table is fitted with gas and distilled water, and each student is supplied with all the chemicals and apparatus needed in botanical and zoological dissections, and in the hardening, sectioning, staining, and mounting of material for histological work. Within the last year a thoroughly equipped

dark-room, for photographic and micro-photographic work, an entomological laboratory for advanced students, and a complete set of anthropometric apparatus have greatly increased the facilities for thorough teaching of the natural sciences.

GEOLOGICAL LABORATORY

This Laboratory is provided with aneroid barometers, compasses, levels, pedometers, etc., for field work, and the necessary drawing apparatus for the construction of geological sections and for making geological maps. It also contains apparatus for grinding sections of rock for microscopic examination, and a petrographic microscope. The paleontological collections contain fossils characterizing the different geological ages, being especially rich in coal plants.

ENGINEERING LABORATORY.

The boilers generating steam for heating and power also furnish practice in determining the amount of steam made for each pound of coal burned. The amount of moisture in the steam is also tested by a calorimeter constructed in the shops. A feed pump and an injector are so arranged that comparative trials may be made for efficiency as boiler feeders. The engine which runs the shops and electric light plant is used to furnish practice in measurement of power from indicator cards and the pony brake. During the session of 1892 a series of tests were made to determine the water comsumption of the engine per horse power per hour, in

which the weight of steam used was determined by condensing the exhaust in a feed water heater at atmospheric pressure, and weighing the amount delivered. In the fall of 1893 a 30-horse power Reynolds-Corliss engine was installed in the main laboratory where it is used to drive the dynamos, testing machine, etc. It has proved to be of the greatest service in experimental work, and especially in valve setting.

A Riehle testing machine, run by a 10-horse power motor and capable of exerting a pull of pressure of 60,000 pounds, has been installed and used in experimental work upon the materials used in buildings, bridges, and machinery. A practical application has been made in determining the tensile strength of the steel plates used in the two 30-horse power boilers for the Branch Normal shops, and the 60-horse power boiler for the Arkansas Industrial University shops.

A 2,000-pound cement testing machine is used to determine the tensile strength of various cements, and their resistance to crushing. A saw for stone cutting has been designed and constructed for the purpose of cutting out specimens for tensile and crushing tests.

ELECTRICAL LABORATORY.

The Electrial Laboratory affords excellent facilaties for experimental work with practical dynamo electric machines. In the laboratory will be found the leading types of machines for arc and incandesecent lighting and for power; constant current and constant potential motors, and generators, representations.

ative of the different methods of power transmission; potentiometers for standardizing measuring instruments; Weston and other voltmeters and ammeters; electro-dynamometers; galvanometers of various types—sine, tangent, reflecting, Deprez, and D'Arsonval; magnetometers; standard resistance coils and bridges; absorption dynamometer and a Kelvin balance.

The excellent supply of apparatus enables the student to carry on a very wide range of experimental work, and to attain practical efficiency in operating and testing electrical machinery and instruments.

SHOP EQUIPMENT.

The present equipment is incomplete, consisting, for the wood shop, of a 12-inch buzz planer, a circular saw, and two 12-inch wood lathes, beside small tools and work benches; for the foundry, of an 18-inch Colliau cupola and moulder's tools; for the blacksmith shop, of a portable forge, several anvils and a large number of small tools; for the machine shop, of a 14-inch engine lathe, 20-inch drill press, pipe fitting and other bench tools. A 35-horse power Westinghouse compound engine provides power for running the machinery, and exhaust steam for the heating pipes of the new building. It is hoped that through the liberality of the next Legislature the equipment as planned can be completed, which will render this department creditable to the University and the State, and competition with older and stronger engineering schools more successful.

The Boiler Room contains two 75-horse power return tubular boilers, set in a three-travel furnace.

These are used for heating the main building and running the shops. There are also two exhaust heaters, a duplex feed pump, and a pair of tanks, holding about 200 gallons each, for convenience in accurately measuring water used in boiler tests and other experimental work.

DRAWING ROOM.

The equipment includes the usual tables and stools; and among the special apparatus and instruments may be mentioned the planimeter, pantograph, blue-print frame, traverse table, odontograph, slide rule, sets of railroad and machine curves, roof pitches, etc. A blue-print room has recently been fitted up with complete facilities for the details of the blue-print process. The room is also being provided with photographic apparatus which will be used to prepare lantern slides and prints illustrating various branches of engineering.

SURVEYING EQUIPMENT.

For the work in railroad, land, and city surveying, the equipment furnishes chains, tapes, plumb bobs, a Locke level, aneroid barometer, sextant, Y level, transits with solar attachment, plane table, etc. The surrounding country also offers problems in most of the varieties of work which meet the practical surveyor. Each year, during the summer, a party of engineering students go into camp one week for practice in surveying and locating railway lines.

General Information.

REQUIRED, ELECTIVE, AND OPTIONAL STUDIES.

Each student must have not less than fifteen recitations, or their equivalent, per week; two hours of laboratory, shop, or farm work, drawing, or sight reading, are counted as equivalent to one hour of recitation. When fewer than fifteen recitations per week, or their equivalent, are specified in any course, the student must elect studies to supply the deficiency. Students known to be in ill health or having physical defects which interfere with their studies, are sometimes allowed less than fifteen recitations. Electives taken from the studies of a class one year below have full value; but, if more than one year below, their value will be fixed by the Faculty. Students are not allowed to take additional studies to exceed the equivalent of twenty recitation hours in all (exclusive of military work), except by permission of the Faculty.

SPECIAL STUDENTS.

Persons who desire to pursue studies in one of the colleges of the University and do not desire to become candidates for a degree, will be admitted on the following conditions:

1. In general all persons under 21 years of age must pass the entrance examinations required of candidates for some degree, as described on pages 32 to 35.

2. Persons over 21 years of age must show that they have a good knowledge of English and are otherwise prepared to pursue profitably the studies they may desire to pursue.

Should a student who enters under the preceding provision (2) subsequently become a candidate for graduation, he must then pass all examinations for admission required of such candidate.

CLASSIFICATION OF STUDENTS.

A student is enrolled as a member of the highest class with which he has nine recitations or their equivalent per week, provided he be pursuing inclass all the lower studies in his course which have not been completed.

EXAMINATIONS.

- I. Examinations, chiefly in writing, are held near the end of each term. The grades are determined by combining the values of the daily recitations and of the examinations, and are divided into five groups, as follows: "Excellent" (E); "Good" (G); "Fair" (F); "Poor" (P); "Bad" (B). A grade not lower than "Fair" is required for a "pass," which is the equivalent of about 75 per cent. At the end of each term a report is made to the parent or guardian of each student showing his progress, general demeanor, etc.
- 2. If a student has failed in any study, he may nevertheless be allowed to take up the next study in advance, provided he be deemed by the Professor in charge of the department to which such study belongs, not incompetent to pursue it; but he will be required to pass a satisfactory examination

in the study in which he failed, or take it up with the next class.

3. If a student has proven competent to continue his advanced work, but has not completed all the preceding studies in his course, he must resume the latter, and if he be found to be overworked, he will be required to drop a part of his advanced work.

HONORS.

Students who have attained grade "E" in work aggregating 55 hours per week (counted on the basis of a four years' course), are granted degrees "with special distinction."

Students who have attained grade "E" in work aggregating 35 hours per week, or grade "E" or "G" in work aggregating 55 hours per week, are granted degrees "with distinction."

LITERARY SOCIETIES.

Material changes have been recently made in the organization of the literary societies, and their meetings, which are held weekly, afford enlarged opportunities for improvement in declamation, composition, debate, etc. Renewed interest in this valuable means of culture is shown by a number of students.

UNIVERSITY MAGAZINE.

The "Ozark," successor to the "University Magazine," is a monthly periodical published by a stock company and edited by a committee of students. It is sent free to all the accredited schools and to such other schools in the state as may desire to have it.

LECTURE COURSE.

The past year has been one of the most prosperous in the short history of the Lecture Association. The following list of entertainments is perhaps the best yet furnished by the managers:

Swedish Quartette, March 13, 1895.

Max O'Rell, "Her Royal Highness, Woman," April 13, 1895.

W. J. Bryan, "Bimetalism," May 25, 1895.

Geo. R. Wendling, "The Man of Galilee," October 14, 1896.

Bishop R. N. Pierce, "Agnosticism Unscientific," November 3, 1896.

P. S. Henson, "Fools," November 21, 1896.

Pres't E. B. Andrews, (Brown University), "Lee and Von Moltke," December 21, 1896.

Robert L. Taylor and Alfred Taylor, "Yankee Doodle and Dixie," February 6, 1896.

Brooks and Macy, Recitations and Character Delineations, March 17, 1896.

A. L. Peterman, "School Life," March 27, 1896.

RELIGIOUS EXERCISES.

Religious exercises are held regularly in the University Chapel at the beginning of each daily session. Students are required to attend.

The churches of Fayetteville cordially welcome the students to their Sunday schools and various meetings for prayer and religious instruction. The denominations represented in the City are Baptist, Presbyterian, Cumberland Presbyterian, Methodist, Protestant Episcopal, Christian, and Roman Catholic. Many of the students are actively engaged in the work of the different church societies and guilds. The Young Men's Christian Association

has commodious quarters in the South Dormitory, and a commendable interest is shown. A Bible class, has held meetings Sunday afternoon, and has been well attended.

ATHLETIC ASSOCIATION.

The purpose of this organization is to encourage the development of the physical man.

The Association as originally formed consisted of the A. I. U. Athletic Club, the A. I. U. Tennis Club, the A. I. U. Base Ball Club, and the A. I. U. Foot Ball Club; and it is further provided that if any other club, organized by the students of the University for the practice of any sport, game, or exercise not already represented by one of the members of the Association, shall make a written application for membership in the Association, and the said application shall be approved by the Governing Body of the Association, the petitioning club shall become a member of the Association with all the rights and privileges pertaining to such membership.

SALE OF ARDENT SPIRITS PROHIBITED.

By an act of the General Assembly of the State of Arkansas, approved March 6, 1875, it is unlawful for any person to sell or give any vinous or ardent spirits within three miles of the Arkansas Industrial University, unless it be prescribed by a regular practicing physician for medicinal purposes.

EXPENSES.

Matriculation, charged all new students\$ 5 00 Tuition per session, charged all except			
beneficiary students 10 00			
Contingent fee, after first year 3 00			
Tuition in Music and Art (see pages 85 and 86).			
Furniture for dormitory students, from			
\$6.00 to			
Board in dormitory at cost, per month,			
from \$7 to 8 00			
Board in private families, per month from			
\$10 to			
Uniform suit, purchased by student, from			
\$13 to 16 00			
Washing, per month, about			
The necessary expenses for a student who			
wishes to live cheaply are:			
Board in dormitory, 9 months, about \$ 72 00			
Washing, 9 months, about			
Furniture, first year only, \$6 to 15 00			
Matriculation, first year only 5 00			
Contingent fee, after first year 3 00			
Total expenses first year, apart from books			
and clothes, about\$ 101 00			
Total expenses afterward, apart from books			
and clothes, about\$ 81 00			
Students leaving the University frequently sell			
their furniture at a small reduction.			
Rooms in the University dormitories are free,			
but occupants provide their furniture, fuel and			
lights. If there are not rooms enough for all, pre-			
ference is given to Arkansas students. An officer			

of the University is in charge of the building, and the rooms are inspected by the Faculty whenever deemed necessary.

Students boarding elsewhere are under the supervision of the President of the University and are allowed to board only at places approved by him.

BOARD FOR YOUNG LADIES.

There is at present no special residence for girls. They are assisted in finding board in respectable families; but the Faculty is not so situated as to exercise constant supervison over them out of college hours. Parents at a distance who send a daughter to the University, should therefore be well satisfied as to her discretion, or else should place her under control of the family with whom she boards. The following ministers, pastors of the local churches named, kindly offer their services in assisting to secure suitable boarding places for young ladies: Rev. S. W. Davies, Presbyterian; Rev. J. A. Anderson, Methodist; Rev. F. T. Charlton, Cumberland Presbyterian; Rev. N. M. Ragland, Christian; ———, Baptist; and Rev. J. J. Vaulx, rector of St. Paul's Church (Episcopal).

ARRIVAL OF STUDENTS.

Students, on arriving at Fayetteville, should report at once to the President of the University, that they may be promptly enrolled and assigned to classes. Needless delay in reporting or unseemly conduct may justify exclusion from the University.

CONDITIONS OF ADMISSION TO THE UNIVERSITY.

Applicants for admission should present certificates of honorable discharge from the school last attended, or furnish other evidence of general good conduct.

PREPARATION FOR THE FRESHMAN CLASS.

I. English. Raub's Rhetoric, or a full equivalent; a composition of 200 to 300 words, correct in spelling, punctuation, paragraphing, and grammar, on a subject announced at the time of the examination. In 1896-'97, the subject will be taken from Scott's Ivanhoe, or Shakespeare's Tempest, or Julius Cæsar.

In 1897-'98 the subject of composition will be taken from Scott's Talisman (Ginn & Co.), or from Shakespeare's Julius Cæsar, or Midsummer Night's Dream (Maynard & Co.)

Students, preparing for the Freshman class, should have annotated editions of these books and use constantly an unabridged dictionary. They should write as many as six compositions on subjects taken from these books, and should make a thorough review a short time before examination. More than half the failures are in composition and meters.

2. Arithmetic. The examination will be taken from Wentworth's Grammar School Arithmetic, the whole of which is required. Teachers preparing candidates for entrance should, in teaching arithmetic, require them to analyze every example capable of analysis, or give a thorough course in mental

arithmetic. Students who are not quick at analysis in arithmetic usually make poor progress in higher mathematics.

- 3. Algebra. To Quadratic Equations involving two unknown quantities, with special attention to factoring, the theory of exponents, and radicals. The examination will be taken from Wentworth's Algebra. In 1896-'97 Algebra through Quadratic Equations will be required.
- 4. Plane Geometry. The first four books of Wentworth's Geometry.
- 5. History. The examination will be taken from Chambers's History of the United States, and from Barnes's General History.
- 6 Geography. Any complete manual, such as Maury's or Frye's, will give the preparation, if thoroughly mastered. Special attention is given to the geography of the United States and of Arkansas.
- 7. Physiology. Martin's Human Body, Briefer Course.
- 8. Latin. Collar & Daniell's Beginner's Latin, Cæsar's Gallic War, four books, with questions on Grammar and on the subject matter, military equipment, etc. Harper & Tolman's Cæsar is recommended. Latin is not required for admission except to the College of Liberal Arts or to the Normal School.

Candidates for the higher classes, or for the Freshman Class after beginning of session, will be examined also in subjects passed over by the class.

Each student should come prepared for all the studies in some one class. If he is behind in one or more studies, he becomes irregular, and is necessarily subject to many inconveniences, though he may be admitted, and classified according to his attainments.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, September 16.—9 a. m., Registration of students; I to 4 p. m., Geometry and Physiology.

Thursday, September 17.—1 to 4 p. m., Algebra,

Geography.

Friday, September 18 .- 9 to 12 m., Arithmetic;

1 to 4 p. m., Latin.

Saturday, September 19.—9 to 11 a. m., English Grammar and Analysis; 11 to 12 m., English Composition, Reading; 1 to 4 p. m., U. S. History, General History.

EXAMINATIONS AT PLACES OTHER THAN FAYETTEVILLE.

Students living more than a hundred miles from the University may obtain special local examinations two weeks before the beginning of each session. The questions will be sent to the principal of any school or to any examiner, provided such officer makes his application not later than one month before the beginning of a session. The questions must be submitted by the principal or county examiner to the candidate under the usual restrictions of a written examination, and the questions and answers must be returned by the same officer to the University with his endorsement that the examination was properly conducted.

ACCREDITED SCHOOLS.

Admission on Certificates.—Any high school or academy whose course of instruction covers all the

branches requisite for admission to the Freshman class of the University may be placed upon the list of accredited schools. Upon application from the principal of any high school or academy, an officer of the Univerity will be sent as soon as possible to examine the course of study and methods of teaching. It his report is favorable, the school will be placed upon the accredited list, and its graduates will be admitted to the Freshman Class without examination. Students of accredited schools who may not be graduates will be excused from examination on subjects required for admission to the University upon certificates of proficiency in such studies from the principal. A school once accredited will retain that relation until its administration is changed, or until a notification that the work is unsatisfactory is received from the University. Upon a change of administration, an application to be continued upon the list of accredited schools should be forwarded to the University. Such request may be granted without a new examination if the authorities can assure themselves that no prejudicial changes in the courses of study or in the thoroughness of instruction will be made.

The University will do all in its power to bring about that close and cordial relation which should bind together the various departments of the educational system of the state.

LIST OF ACCREDITED SCHOOLS.

Fort Smith High School, Principal, B. W. Torreyson. Rogers Academy, Principal, J. W. Scroggs. Little Rock High School, Principal, Lewis Rhoton. Marianna Institute, Principal, T. A. Futrall. Lonoke High School, Principal, J. J. Doyne. Pine Bluff High School, Principal, Ruth McBride. Judsonia High School, Principal, W. W. Condray. University Academy, Columbia, Mo., Principal, Jno. W. Wilkinson.

Paris High School, Paris, Tex., Principal, J. G. Wooten. Hinemon University School, Monticello, Ark., Principal

pal, J. H. Hinemon.

Garnett High School, Garnett, Kan., Prin., F.McClellan, Little Rock Academy, Principal, W. H. Tharp. Helena High School, Principal, W. M. Rivers. Hot Springs High School, Principal, Geo. B. Cook. Amity High School, Principal, S. M. Samson. Waldron High School, Principal, H. J. Hall. Harrison High School, Principal, C. L. Scott. Neosho Public School, Principal, J. M. Stevenson. Arkansas Normal School, Sulphur Rock, Ark., Principal, J. W. Decker.

Paris Academy, Principal, G. S. Minmier, Paris, Ark. Dardanelle High School, Principal, P. L. Burrow,

Dardanelle, Ark.

Russellville High School, Principal, E. L. Gatewood,

Russellville, Ark.

Eureka Springs High School, Principal, C. S. Barnett, Eureka Springs, Ark.

APPOINTMENT OF BENEFICIARIES.

An Act of the General Assembly of the State of Arkansas "to regulate the appointment of beneficiary students in the Arkansas Industrial University and to amend section 4088 of the Digest of the Statutes of 1894," approved April 19, 1895, reads as follows:

Section 4088.—"It shall be the duty of the Board of Trustees to apportion the number of beneficiaries who shall be admitted as students in the University without tuition, among the several counties of the State, according to population, and to notify the County Judge of each county of the number apportioned to the county at least two months prior to the beginning of each regular annual session of the school; and it shall be the duty of the County Judge to appoint from the actual residents of the county the number of beneficiaries to which it may be

entitled, a preference being given to those noted for diligence and proficiency in study; and the appointment so made shall be entered of record. If the Judge of any county shall fail to appoint its quota of beneficiaries, or if those appointed shall fail to attend, the President of the University shall appoint such beneficiaries to the full number authorized by law from other counties having their full quota; *Provided*, Such appointments shall be vacated on application of the County Judge of a county so failing to fill its quota."

NUMBER OF BENEFICIARIES.

The number of beneficiaries fixed by the Board of Trustees is one thousand, distributed to the counties of the State in proportion to the population.

There is also one "Honorary Scholarship" to each county, to be elected for superior merit and proficiency, from the public schools of each county, according to Section 2, of act of July 23, 1868.

All the beneficiary students should be present at the opening of the first term, and unnecessary delay will lead to the forfeiture of their appointments.

QUALIFICATIONS.

The attention of County Judges is called to the following requirements for admission to the lowest preparatory class:

1. Wentworth's Grammar School Arithmetic,

- 2. Maxwell's Elementary Grammar and Comp'n,
- 3. Maury's or Frye's Complete Geography, or an equivalent.
 - 4. The intelligent reading of the Fifth Reader.
 - 5. The spelling of any words in the Fifth Reader.

It is highly important in making appointments to note carefully these requirements; otherwise students coming to the University unprepared incur needless expense and go away disappointed and often discouraged.

FORMS OF APPOINTMENT.

Students who have been appointed beneficiaries must bring evidence of appointment in the following form, to be sent by the Judge of the County Court, in accordance with the sixth section of an act approved March 6, 1875.

[Form 1-Annointment]

L. W. M. P.
No. [To be given to the Student]
TO WHOM IT MAY CONCERN:
I hereby appointof
State of Arkansas, as a beneficiary to the Arkansas In-
dustrial University.
Given under my hand thisday of
· · · · · · · · · · · · · · · · · · ·
Send a notice like the following to the Presi-
dent of the University, and one to the Secretary of
the Board of Trustees, at Fayetteville:
[Form 2—Notice to President of University.]
Arkansas,)
[Form 2—Notice to President of University.] Arkansas,

To theUniversity,
I hereby notify you that I have this day appointed
ofCounty, State of Arkansas,
a beneficiary of the Arkansas Industrial University.
Given under my hand this day of

APPORTIONMENT OF BENEFICIARIES.

COUNTIES.		COUNTIES.	
Arkansas	10	Lee	16
Ashley	13	Lincoln	12
Baxter	7	Little River	6
Benton	24	Logan	19
Boone	15	Lonoke	15
Bradley	8	Madison	15
Calhoun	7	Marion	10
Carroll	16	Miller	12
Chicot	12	Mississippi	9
Clay	13	Monroe	12
Clark	15	Montgomery	7
Cleburne	8	Nevada	17
Cleveland	10	Newton	6
Columbia	19	Ouachita	15
Conway	16	Perry	6
Craighead	8	Phillips	28
Crawford	11	Pike	3
Crittenden	11	Poinsett	7
Cross	6	Polk	3
Dallas	9	Pope	19
Desha	11	Prairie	10
Drew	15	Pulaski	45
Faulkner	17	Randolph	12
Franklin	18	Saline	11
Fulton	8	Scott	19
Garland	11	Searcy	7
Grant	8	Sebastian	29
Greene	9	Sevier	8
Hempstead	24	Sharp	12
Hot Spring	10	Stone	8
Howard	12	St. Francis	10
Independence	21	Union	16
Izard	14	Van Buren	11
Jackson	15	Washington	30
Jefferson	29	White	21
Johnson	15	Woodruff	12
Lafayette	6	Yell	18
Lawrence	10		

ABSENCES AND WITHDRAWALS.

Absences from the University during the session are not permitted except for valid reasons. The right of a parent to withdraw his son at any time, without reason assigned, is recognized; but without so withdrawing him, he cannot relieve him of the obligation to attend to his duties at the University. The incidental absences of students during the session are exceedingly disadvantageous, both to themselves and to the University. While, therefore, the Faculty permit them, in cases where propriety or urgent necessity seems to make them unavoidable, they hold it to be a duty to inquire into the reasons for which the permission is solicited.

Parents or guardians who wish to withdraw their children or wards from the University should write to the President stating their wishes. No honorable discharge will be given to a student under age who is unable to produce the written application of his parent or guardian for his withdrawal, nor will an honorable discharge be given to a student under censure of any kind, whether for neglect of duty or other cause, even though he may have the consent of his parent or guardian for his withdrawal from the University.

THE AGRICULTURAL EXPERIMENT STATION.

The National Government established the Experiment Station as a department of the University in 1887, and maintains it to investigate agricultural problems for the aid of the farmers of the State.

The work of the Experiment Station is divided into the special lines of agriculture, horticulture, chemistry, and animal and plant diseases. Specialists are employed in each line, and experiments are made both in the field and laboratory in the improvement of soils, the rotation of crops, diseases of plants and domestic animals, in fertilizers, the value of stock foods, dairying and other matters. Students interested in agricultural subjects are given opportunity to observe the experiments and to acquaint themselves with the work of the Station in its various departments; the bulletins are also available for their use. The experiments and their results are published in bulletins which are sent free to farmers. stock raisers, and fruit growers of the State, and to others interested in agriculture.

Those who desire the Station bulletins, should apply for them to the Director of the Station, Fayetteville, Ark. One application is sufficient to obtain all future bulletins, if desired.

MILLITARY DEPARTMENT.

The head of this Department is an officer of the United States Army detailed by the War Department for duty at the University.

All male Collegiate students are required to take the Theoretical Course, and all male students over 15 years of age are required to take the Practical Course in Military Science, the latter including infantry drill, target practice, camping, guard duty and various other exercises, the course covering the entire period of the student's stay at the University. This instruction is in accordance with the Act of

Congress donating lands for the establishment of the University, which requires that "Military Science and Tactics" shall be taught in addition to the usual course of study.

The system of practical instruction closely follows that used in the United States Army. It contains a course of gymnastic exercises for the development and improvement of the arms, chest, legs, hands and feet, which is unexcelled. Besides being the perfection of physical training, this instruction has many advantages mentally. The necessity of being alert, listening for each word of command, and acting promptly on it, quickens the wit and cultivates the habit of fixing the attention and concentrating the thoughts. In addition to all this, it inculcates in the student a respect for authority and discipline which is equaled by no other system. This enables the University to send out annually young men who are fully able to officer the various organisations of the State Guard.

The cadets are organized into a Battalion composed of Staff, Band, and five Companies. The officers and non-commissioned officers of the Battalion are selected from those students who are most proficient in their drill and military studies, and most exemplary in their deportment, the Major, Captains and Lieutenants being taken, usually, from the Senior and Junior Classes, and Sergeants and Corporals from the Sophomore and Freshman Classes. An office in the Battalion is one of merit and distinction, and any unbecoming conduct subjects the appointee to reduction to the ranks.

A competitive drill is held each year, about Commencement, and to the winning Company is awarded the honor of carrying the National Color for the ensuing year. At the last competition, Company "A," commanded by Captain S. L. Morley, carried off the prize, and to T. B. Martin, Jr., was awarded the gold medal for the best drilled cadet. The Battalion will be taken into camp at such time as may be determined upon by the proper authority.

In connection with the Battalion, a Band of not exceeding twenty pieces is maintained. It receives the best instruction obtainable, practices three hours per week and performs at all military ceremonies.

The three students of the Senior Class having the highest grade of merit in this department, will be reported to the Secretary of War, and their names will be recorded in the Adjutant General's Office and published in the Army Register for that year. The President of the United States, in appointing officers from civil life, gives preference to those whose names are so recorded. Cadet officers, on graduation, are brevetted in the State Guard with the rank held by them in the Cadet Battalion at the date of their graduation, and recommendations of the Commandant of Cadets as to special military qualifications of graduates of the military course are filed in the office of the Adjutant General of the State and considered in appointing commissioned officers. of the State Guard.

A neat uniform of gray cloth, with brass buttons and black trimmings, is required to be worn by all cadets at drill. The uniform, complete, costs about \$16.00, and with ordinary care will last an entire year.

ORGANIZATION OF THE BATTALION FOR THE YEAR 1895-'96

Elias Chandler, First Lieutenant, 16th U.S. Infantry, Commandant of Cadets.

FIELD AND STAFF OFFICERS.

Cadet MajorJ. H. I	Davis.
Cadet First Lieutenant and Adjutant E. L. Sp.	encer.
Cadet First Lieutenant and Quartermaster J. L. F	ledus.

NON-COMMISSIONED STAFF.

Cadet Sergeant Major	M. L. Bell.
Cadet Quartermaster Sergeant	
Cadet Color SergeantW. I	M. Fishback.

BAND.

Cadet First Lieutenant, Commanding the
Band W. H. Wood.
Cadet Principal Musician and Band Leader I. F. Stewart.
Cadet Principal Musician and Assistant
Band Leader
Cadet Drum Major

COMPANY "A" (COLOR).

Cadet Captain	W. E. Pruett.
Cadet First Lieutenant	
Cadet Second Lieutenant	
Cadet First Sergeant	J. R. Howard.
Cadet Sergeant	R. N. Graham.
Cadet Sergeant	C. D. Frierson.
Cadet Sergeant	Wm. P. Johnson.
Cadet Sergeant	J. L. Horner.
Cadet Corporal	W. W. Beavers.
Cadet Corporal	W. E. George.
Cadet Corporal	
Cadet Corporal	J. M. Davis.

COMPANY "B."

·Cadet	CaptainE. K. Braly	7
Cadet	First LieutenantA. B. Crozier	

G 1-t G 1 Lieutement W H Askow
Cadet Second Lieutenant
Cadet First Sergeant
Cadet Sergeant
Cadet Sergeant H. Y. Fishback. Cadet Sergeant H. R. Brown.
Cadet Sergeant A. C. Seawel.
Cadet Sergeant
Cadet Corporal
Cadet Corporal
Cadet Corporal E. T. Brown.
Cadet Corporal F. J. Darragh.
COMPANY "C."
Cadet Captain
Cadet First Lieutenant
Cadet Second Lieutenant T. H. Batten.
Cadet First Sergeant
Cadet Sergeant F. M. Groves.
Cadet Sergeant W. T. Chamness.
Cadet Gargeont F. I. Wassell
Cadet Sergeant
Cadet SergeantF. B. Kirby.
Cadet CorporalJohn Randolph
Cadet Corporal
Cadet CorporalJ. B. Burton.
Cadet Corporal
COMPANY "D."
Codet Contain I I Moore
Cadet Captain
Cadet First Lieutenant D. C. Morrow.
Cadet Second Lieutenant
Cadet First Sergeant James Mitchell.
Cadet Sergeant
Cadet SergeantB. E. Turner.
Cadet Sergeant
Cadet SergeantR. H. Huie.
Cadet Corporal
Cadet Corporal
Cadet Corporal W. C. Hudson.
Cadet Corporal
COMPANY "E."
COMPANY "E." Cadet Captain
COMPANY "E." Cadet Captain T. B. Martin. Cadet First Lieutenant George Nicholls. Cadet Second Lieutenant G. H. Askew. Cadet First Sergeant H. D. Moore. Cadet Sergeant F. L. Dengler.
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Company "E." Cadet Captain T. B. Martin. Cadet First Lieutenant George Nicholls. Cadet Second Lieutenant G. H. Askew. Cadet First Sergeant H. D. Moore. Cadet Sergeant F. L. Dengler. Cadet Sergeant W. R. Buffington. Cadet Sergeant A. B. Cory.
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Company "E." Cadet Captain T. B. Martin. Cadet First Lieutenant. George Nicholls. Cadet Second Lieutenant. G. H. Askew. Cadet First Sergeant H. D. Moore. Cadet Sergeant F. L. Dengler. Cadet Sergeant W. R. Buffington. Cadet Sergeant A. B. Cory. Cadet Sergeant J. L. Bentz. Cadet Corporal G. B. Wood.

Organization of the University.

The following are the colleges, schools, and courses:

I. AT FAYETTEVILLE.

- I. The School of Agriculture.
 Farmers' Course.
- 2. The College of Mechanic Arts and Engineering.

(a) Course in Mechanical Engineering.

(b) Course in Civil Engineering.

(c) Course in Electrical Engineering.

(d) Short Course in Electrical Engineering.

(e) Trades Course.

3. The College of Science.

(a) Course in Chemistry.

- (b) Course in Botany.(c) Course in Zoology.
- (d) Course in Entomology.

(e) Course in Geology.

4. The College of Liberal Arts.

(a) Course in Arts with Ancient Languages.
(b) Course in Arts with Modern Languages.

(c) Course in Arts with Mathematics.

- (d) Course in Arts with History.
- 5. The Normal School.
- 6. The Graduate Courses.
- 7. The Preparatory Department.

(a) Agricultural Course.

(b) Engineering Course.(c) General Course.

8. The Agricultural Experiment Station.

II. AT LITTLE ROCK.

9. The Medical School.

(a) Preliminary Course.(b) Course in Medicine.

10. The Law School.

Law Course.

III. AT PINE BLUFF,

- 11. Branch Normal College.
 - (a) Normal Course.(b) Mechanical Course.

Departments of Instruction.

The arrangement of elective courses enables students to concentrate their work upon special lines or subjects, and each student is expected to complete the undergraduate studies of at least one language or science. The following rules for elective studies will be observed:

- No study can be elected, unless the Professor in charge deems the student prepared to pursue it.
- 2. No elective study shall be changed before the end of the term.

No Professor shall be required to teach an elective course, unless three or more students pursue it.

The figure on the left is the number of the course; that on the right is the number of recitation hours per week.

AGRICULTURAL DEPARTMENT.

A. E. Menke, Superintendent of Agriculture.

Jerome McNeill, Professor of Horticulture.

W. B. Bentley, Associate Professor of Chemistry.

R. R. Dinwiddle, Veterinarian.

W. F. Bates, Instructor in Agriculture.

3.	Horticulture 4
	Class-room and practical work (first term). Professor McNeill.
	Required of Sophomores in Farmers' Course.
4.	Advanced Agriculture 2
	This course can be taken by those students only who have passed the preparatory course, and have some knowledge of chemistry and botany. Professor Menke.
	Required of Sophomores in Farmers' Course.
5.	Stock Breeding
	Class-room work on the principles of improvement and selection according to Warfield, Sanders and Powell.
	Required of Sophomores in Farmers' Course.
6.	Advanced Dairy Husbandry
	Second term. The management of large dairies, the principles of scientific feeding, the economic production of dairy products and other related
	LODICS.
	topics. Mr. Bates. Roquired of Sophomores in Farmers' Course.
М	Mr. Bates.
C. V.	Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts.
C. V. e J. J.	Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering.
C. V. e J. J. W. N	Mr. Bates. Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering. GLADSON, Electrical Engineering. K MARTIN, Machine Shop. Ass't Superintendent
C. V. e J. J. W. N MAC	Mr. Bates. Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering. K. GLADSON, Electrical Engineering. K MARTIN, Machine Shop. Ass't Superintendent lechanic Arts.
C. V. c J. J. W. N MACI	Mr. Bates. Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering. K. GLADSON, Electrical Engineering. K. MARTIN, Machine Shop. Ass't Superintendent Iechanic Arts. NICHOLAS, Wood Shop. K. BASHAW, Forging and Founding.
C. V. c J. J. W. N MACI	Mr. Bates. Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering. K. GLADSON, Electrical Engineering. K MARTIN, Machine Shop. Ass't Superintendent lechanic Arts.
C. V. c J. J. W. N MACI	Mr. Bates. Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering. K. GLADSON, Electrical Engineering. K. MARTIN, Machine Shop. Ass't Superintendent Iechanic Arts. NICHOLAS, Wood Shop. K. BASHAW, Forging and Founding.
C. V. G. J. J. W. N. MAC M. F. P. G. W. C. S.	Rechanic Arts. Kerr, Mechanical Engineering, Superintendent Mehanic Arts. Knoch, Civil Engineering. Koladson, Electrical Engineering. K Martin, Machine Shop. Ass't Superintendent Iechanic Arts. Nicholas, Wood Shop. Bashaw, Forging and Founding. Duggans, Engineer. Mechanical Engineering. Mechanical Knoch, (M. E.)
C. V. G. J. J. W. N. MAC M. F. P. G. W. C. S.	Mr. Bates. Roquired of Sophomores in Farmers' Course. ECHANIC ARTS AND ENGINEERING. KERR, Mechanical Engineering, Superintendent Mehanic Arts. KNOCH, Civil Engineering. GLADSON, Electrical Engineering. K MARTIN, Machine Shop. Ass't Superintendent Iechanic Arts. NICHOLAS, Wood Shop. BASHAW, Forging and Founding. DUGGANS, Engineer. MECHANICAL ENGINEERING, (M. E.) Shop Work
C. V. G. J. J. W. N. MAC M. F. P. G. W. C. S.	Rechanic Arts. Kerr, Mechanical Engineering, Superintendent Mehanic Arts. Knoch, Civil Engineering. Koladson, Electrical Engineering. K Martin, Machine Shop. Ass't Superintendent Iechanic Arts. Nicholas, Wood Shop. Bashaw, Forging and Founding. Duggans, Engineer. Mechanical Engineering. Mechanical Knoch, (M. E.)

ARKANSAS INDUSTRIAL UNIVERSITY 49
(b): Founding. Moulding; melting and pouring brass and iron; management of cupola. Bolland's
Iron Founding. Half year, eight hours per week.
(c): Forging. Management of fire; drawing; welding; riveting; and tempering. Half year, eight hours per week. Mr. ——————
(d): Machinist Work. Chipping and filing; turning; planing; milling; drilling; grinding, erection of machinery and millwrighting. Rose's Complete Practical Machinist. One year, eight hours per week. Mr. Martin.
(e): Stationary Engineering. Steam fitting; cleaning and firing boilers; management of high speed and Corliss engines. Half year, four hours per week. Mr. Duggans.

Mechanical Drawing 2.

(a): Freehand. Outline drawing from models and machine parts; plans, elevations, sections, lettering, etc. One year, two hours per week.

Mr. Nicholas.

(b): Instrumental Drawing. Drawings of geometrical problems, machine parts, line shading and lettering. One year, two hours per week.

Associate Professor Knoch.

(c): Practical Drawing. Working drawings, titles, tracing, preparing and using blue print paper. One vear, four hours per week.

Associate Professor Gladson.

3. During the fourth year of the Trades Courses a student may choose for the subject of his shop work any one of the following: (a) Carpentry and cabinet making Mr. Nicholas. (b) Pattern making Mr. Nicholas.

 (d)
 Forging
 Mr.

 (e)
 Machine Shops
 Mr. Martin

(f) Engine and boiler running......Mr. Duggans.

4. Three hours per week, first term. Theory of motion and velocity ratios; designs of gear wheels, cams, link motions, trains of mechanism. Textbook: Stahl and Wood's Elements of Mechanism.

Professor Kerr.

Required of Juniors in Mechanical and Electrical Engineering Courses,

5.	Value Gears3
	Three hours per week, part of second term. An analytical and graphical treatment of the plain slide valve, shifting eccentrics, link motions, radial, double and drop cutoff valve gears. Text-book: Peabody's Valve Gears. Professor Kerr.
	Required of Juniors in Mechanical and Electrical Engineering Courses.
6.	Indicator Practice
	Methods of using the steam engine indicator in determining horse power, setting valves and adjusting the governors. Three hours per week, part of second term. Professor Kerr.
	Required of Junior Mechanical and Electrical Engineers.
7.	Drawing: Machine Design2
	A practical study of velocity ratios in mechanism, gears, cams, link work, fastenings, belt and rope gearing. Four hours a week through the year.
	Professor Kerr.
	Required of Junior Mechanical Engineers.
8.	Drawing: Steam Engine and Boiler Design 2
	A course in the study and design of boilers and steam engine parts, such as pistons, cross heads, frames, main bearings. fly wheels, valve gears, and governors. Through the year. Professor Kerr.
	Required of Senior Mechanical Engineers.
9.	Steam Engine Regulation
	Lectures. Two hours per week, first term. Discussion of the form and purpose of fly wheels; design of fly wheels as modified by stresses due high speed or sudden stoppage; weight of fly wheel, balance of reciprocating parts. Theory, construction, and adjustment of throttling, pendulum, and shaft governors; theory of coiled springs. Professor Kerr.
	Required of Seniors in Mechanical Engineering Course.
IO.	Mechanical Laboratory2
	Study of processes of blue printing and photography; gas analysis; calorific power of fuels; friction of belting; tests of lubricants; calibration of thermometers, gauges and indicators; planimeters and indicator cards. Engine and boiler trials. Professor Kerr. Required of Juniors and Seniors in Mechanical Engineering Course.
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ARMAN AR INDUSTRIAL UNIVERSITY

II.	Steam Engines and Boilers
	Three times a week, second term. Elementary thermodynamics; types of simple and compound engines; valve diagrams and indicator cards; heat and combustion of fuels; types and care of boilers. Text. Kinealy.
	Professor Kerr.
12.	Required of Juniors in Engineering Courses. Statics and Dynamics
	Five hours per week part of second term. Forces; statics of a material point, of a rigid body, of a flexible cord; motion of a material point; moment of inertia; dynamics of a rigid body; work, energy and power; friction. Text-book: Church's Mechanics of Engineering.
	Mr. Martin.
1.3.	Required of Juniors in Engineering Courses. Strength of Materials
	Four hours per week, part of first term. Elementary stresses and strains, tension, compression, shearing, torsion, flexure of homogeneous prisms, continuous girders; flexure of long columns. Textbook: Church's Mechanics of Engineering. Mr. Martin.
4.	Required of Seniors in Engineering Courses.
14.	Hydraulics
	Mr. Martin.
t5.	Required of Seniors in Engineering Courses. Graphics
	Lectures. One hour per week, first term. Graphical arithmetic; force diagrams; moment of inertia; stresses in trusses and mechanism; graphical dyna-
	mics. Professor Kerr.
16.	Required of Seniors in Engineering Courses. Mechanical Refrigeration

Three hours per week, first and second term. Study of fluids available; machinery and apparatus used in compression, and absorption systems; methods of freezing, cold storage; refrigeration from central stations. Lectures, recitations, and prescribed reading.

Professor Kerr.

17.	Healing and Ventilating
	Three hours per week, part of second term. Principles of ventilation, systems of heating, piping, radiators, boilers, forced-blast systems, specifications. Professor Kerr.
	Required of Seniors in Mechanical Engineering.
18.	Pumping Machinery2
	Two hours per week, second term. Design, construction, and operation of pumps and pumping machinery, with special reference to water works service. Text-book: Barr's Pumping Machinery. Professor Kerr.
	Required of Seniors in the Civil and Mechanical Engineering Courses.
19.	Turbines2
	Two hours per week, second term. Action of a jet of water on a moving vane; impulse and reaction wheels; modern turbine, form, efficiency, and methods of regulation. Text-book: Trowbridge's Turbine Wheels; Wood's Reaction Motors; Lectures, Professor Kerr.
	Required of Seniors in Mechanical and Electrical Engineering Courses.
20.	Locomotive Mechanism
	Mechanism. Professor Kerr.
	Required of Seniors in Mechanical Engineering Course.
21.	Gas Engines
	Required of Seniors in Mechanical Engineering Course.
	CIVIL ENGINEERING, (C. E.)
	J. J. Knoch, Associate Professor.
I.	Descriptive Geometry
	Recitations and practice two hours a week throughout the year. Text-book: Church's Descriptive Geometry.
	Required of Sonhomores in the Engineering Courses

2.	Surveying
	First and part of second term. Care, use and adjustment of instruments; use of chain, tape, compass, transit, solar attachment, level, sextant and plane table; land surveying, leveling, contouring, laws and instructions relating to surveys of the public domain. Text-book: Carhart's Surveying. Required of Sophomores in Engineering and in Science, Course V.
3.	Field Practice
	Exercises in land, city, and topographical surveying. Required of Sophomores in Engineering and in Science, Course V.
4.	Highways
	Two hours per week, part of second term. The location, construction, and maintenance of common, macadam, and Telford roads; brick, stone, wood, and asphalt pavements for city streets. Text-book: Spalding's Roads, Streets, and Pavements. Requiredof Sophomores in Engineering Courses.
5.	Railroad Engineering
	Three hours per week first term, two hours second term. Preliminary surveys and location; transition curves, yards, and turnouts; estimates of earthwork and material used in construction; the economics of railway location and management. Text-books: Searle's Field Engineering, and Crandall's Transition Curve and Earthwork Computations, first term; Wellington's Economic Theory of Railway Location. second term. Required of Juniors in Civil Engineering.
6.	Field Practice
	Location of curves, turnouts, and Y's; measurement of embankments and cuts and computation of volumes. Required of Juniors in Civil Engineering Course.
7.	Railroad Survey
	One week, twelve hours per day. Actual field practice in reconnoissance, preliminary survey, and location.
	Required of Juniors and Seniors in Civil Engineering Course and of Sophomores in all Engineering Courses.
8.	Drawing
	Pen and colored topography; profiles; topographical and railroad maps from actual surveys. Required of Juniors in Civil Engineering.

9.	Masonry Construction
	Two hours per week, second term. Use of lime and hydraulic cement mortars; stone and brick masonry foundations; foundations in soft materials on land and under water; cofferdams, cribs and caissons. Text-book: Baker's Masony Construction. Required of Juniors in Civil and Mechanical Engineering Courses.
10.	Mining Engineering
	Lectures one hour per week first term. Mine surveying, blasting, timbering and winning deposits; ventilation, hygiene, and mining law. Required of Juniors in Civil Engineering Course.
II.	Roofs and Bridges
	Two hours per week, first term; four hours second term. Theory of computation of stresses by both analytical and graphic methods; full computations, designs, and bills of material for a roof truss and railroad bridge. Text-books: Merriman and Jacoby's Roofs and Bridges, Parts I. and II.
	Required of Seniors in Civil Engineering Course.
12.	Sanitary Engineering
	Required of Seniors in Civil Engineering Course.
13.	Stereotomy and Drawing
14.	Arches and Dams
	One hour per week, first term. Theory of the equilibrium of arches and stability of masonry dams, by both analytical and graphic methods; drawings for complete designs. Text-book: Baker's Masonry Construction. Required of Seniors in Civil Engineering Course.
7.5	
15	Waterworks

	details of estimate of cost. Text-book: Fanning's Hydraulic and Water Supply Engineering.
	Required of Seniors in the CIvil Engineering Course.
16.	Engineering Laboratory
	Two hours per week, first and second terms. Test of strength and other properties of materials of construction; tensile and crushing tests of brick, stone and cement; flow of water through pipes, elbows, valves, and measurement by means of weirs.
	Professor Kerr and Associate Professor Knoch.
	Required of Seniors in Civil and Mechanical Engineering Courses, first and second terms; of Seniors in Electrical Engineering, second term.
17.	Field Practice
	Two hours per week, first and second terms. Topographical survey, triangulation, and leveling. Required of Seniors in Civil Engineering Course.
18.	Drawing
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	Two hours per week, second term. Structural details; working drawings for designs. Required of Seniors in the Civil Engineering Course.
19.	Contracts and Specifications
	Three hours per week, second term. Study of such portions of the law of contracts as relate to engineering construction; engineering specifications and accompanying documents. Text-book: Johnson's Engineering Contracts and Specifications. Required of Seniors in the Engineering Courses.
	ELECTRICAL ENGINEERING (E. E.)
	W. N. GLADSON, Associate Professor.
I.	Practical Management of Dynamos and Motors
	Recitation. Second term, two hours a week. A practical treatise on installing, starting, testing, locating, and remedying faults in dynamos and motors. A practical laboratory guide. Text-book: Crocker and Wheeler's Practical Management of Dynamos and Motors.

Required of second year students in short course in Electrical Engineering.

2.	Electrical Engineering
	Telephone and telegraph; tests; methods of regu-
	lating and controlling dyamos and motors; station management; storage batteries; application of elec-
	tricity to street car and mine work. Text-book:
	Slingo and Brooker's Electrical Engineering. Refer-
	ence book: Thompson's Dynamo Electric Machinery.
	Required of second year students in short course in Electrical Engineer-
	ing.
3.	Technical Drawing
	Lectures and practice two afternoons a week
	throughout the year. Working drawings of electrical apparatus; wiring plans designed by student
	Required of the Juniors in the full course, and second year students in short course in Electrical Engineering.
	short course in Electrical Engineering.
4	Technical Drawing
	Lectures and practice two hours a week throughout
	the year; extension of Course 3. Drawings of circuit and machine; electrical calculations and me-
	chanical designs of electrical machinery; complete
	power plants designed by student. Required of Seniors in Electrical Engineering.
5.	Electrical Laboratory2
	Two afternoons a week throughout the year. An extended course in magnetic and electrical measure-
	ments; current, electro-motive force, and resistance
	use and calibration of instruments, volt meters, and
	potentiometers; exploration of magnetic fields dynamo work begun.
	Required of Juniors in full course and of second year students in short
	course in Electrical Engineering.
6.	Electrical Laboratory
	Four hours a week throughout the year. This is an extension of course 5, and must be preceded by it
	A full experimental course in operating and testing
	direct and alternate current machines; transmission.
	storage, and transformation of electric energy. Special courses given suited to the preparation and
	object of the student.
	Required of Seniors in the full course and of second year students in the short course in Electrical Engineering.
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7.	Dynamo Electrical Machinery
	Recitations first term five hours a week. Confined chiefly to direct current apparatus, including types of
	motors generators and transformers design, cal-

	culations, construction, testing, and operating. Textbook: Thompson's Dynamo Electric Machinery.
	Required of Juniors in Electrical Engineering.
8.	Theory of Alternate Currents
	Recitations twice throughout the year. Text-book: Flemming's Alternate Current Transformer, Volume I.
	Required of Juniors second term, and of Seniors first term, in Electrical Engineering.
9.	Alternate Current Machinery3
	Recitations and lectures three times a week, second term. Text-book: Flemming's Alternate Current Transformer, Volume II. Required of Seniors in Electrical Engineering.
10.	Electric Railways
	Recitations and lectures twice a week, third term. Text-book: Crosby and Bell's Electric Railway in Theory and Practice. Required of Seniors in Electrical Engineering.
II.	Telephony and Telegraphy
	Lectures and recitations twice a week, one term. Text-books: Preece's Telephone, Thom and Jones's Telegraphic Connections. Required of Seniors in Electrical Engineering.
12.	Electricity and Magnetism 2
	Recitations and practice twice a week, first term. Text-book: Gray's Absolute Measurements in Electricity and Magnetism. Required of Seniors in Electrical Engineering.
12.	Electrical Design
	Lectures and practice once a week, first term. Required of Seniors in Electrical Engineering.
14.	Photometry I
	Lectures, recitations, and practice, once a week during the second term. Required of Seniors in Electrical Engineering.
15.	Polyphase Electric Currents
	Recitations and experimental work. Text-book: Thompson's Polyphase Electric Currents. Required of the Seniors in Electrical Engineering.

GRADUATE INSTRUCTION IN CIVIL ENGINEERING.

(I)Framed Structures.

This will include the computation of stresses, design, and complete working drawings for roofs, bridges, plate girders, trestles (in wood and iron), and a critical study of some of the modern tall buildings.

Railroad Engineering. (2)

Including railway management, buildings and vards.

Building Material. (3)

This course will be principally laboratory work on cements, building stones, wood, iron, and steel.

Directed by Associate Professor Knoch.

GRADUATE INSTRUCTION IN MECHANICAL ENGINEEING.

Engineering Design. (1)

This will lead to complete drawings and blue prints of steam engines, boilers, pumps, turbines, transmission machinery, or power plants, etc., based on original design and calculation. This will be accompanied by research in related literature.

(2) Experimental Engineering.

This will cover actual tests for efficiency of steam engines, boilers, turbines, pumping machinery, etc., combined with a study of important tests by experts.

(3) Thermodynamics.

Effect of heat on gases and vapors; study of general laws and their application to injectors, hot air, gas and steam engines; Hirn's Analysis; theory of compound engines; air compressors.

Directed by Professor Kerr.

GRADUATE INSTRUCTION IN ELECTRICAL ENGINEERING.

These courses will be in the nature of theoretical and practical investigations. The laboratory equipment, which is continually being added to, will furnish means for an extended investigation in the following lines:

(1) Absolute measurements in electricity and mag-

netism.

Photometric standards and measurements.

(3) Design, construction, and management of electric

plants. Management, tests, and efficiencies of direct or (4) alternate current generators or motors.

A complete report of work done will constitute a part of the requirements.

Directed by Associate Professor Gladson.

THESIS.

This is to be an original work planned and executed by the student. The subject chosen must be covered by previous work and must be presented for approval to the instructor in charge of the course not later than the beginning of the second term, and the completed thesis must be presented at least two weeks before Commencement.

CHEMISTRY AND PHYSICS.

A. E. MENKE, Professor. W. B. Bentley, Associate Professor.

CHEMISTRY.

I.	Agricultural Chemistry3
	Recitations twice a week, laboratory work one afternoon throughout the year. This course will be devoted to instruction in the chemistry of soils, fertilizers, and agricultural products.
	Professor Menke.
	Required of Freshmen in Farmers' Course.
2.	General Inorganic Chemistry3
	Lectures twice a week, laboratory work one afternoon throughout the year. Reference books: Roscoe and Schorlemmer's Treatise on Chemistry, and other books.
	Associate Professor Bentley.
	Required of Sophomores in Science, Courses II., III., IV., and V. This course is omitted in 1896-'97.
3.	General Chemistry
	Lectures and recitations three times, laboratory work two afternoons per week throughout the year. Text-book: Wurtz. Professor Menke.
	Required of Sophomores in the Engineering and Farmers' Courses, and of Freshmen in Science, Course I.

Chemical Philosophy 3 4. Three times per week, third term. This course supplements the instruction in theoretical chemistry given in Courses 2 and 3. Text book: Tilden's Introduction to Chemical Philosophy. Reference books: Ostwald's General Chemistry and Meyer's Theoretical Chemistry. Associate Professor Bentley. Required of Sophomores in Science, Course I. 5. Qualitative Analysis. (a) Recitations three times per week, first term, (b) Laboratory work two afternoons per week for engineering students, three afternoons for scientific students throughout the year. The recitations are occupied with the discussion of problems depending on the principles of qualitative analysis. The object of these discussions is to enable the student to understand the methods of separation as well as to be able to follow them practically. In the laboratory a large number of substances both simple and com-plex are analyzed. Labaratory Manual: Hill's Lecture Notes on Qualitative Analysis. Associate Professor Bentley. Required of Sophomores in Science, Course I. Laboratory work six hours per week, second term. A series of minerals are identified chiefly by blowpipe tests. Foye's Handbook. Associate Professor Bentley. Course 6 is required of Sophomores in Science, Course I. Recitations three times per week throughout the year with laboratory work, if desired. Bernthsen's Organic Chemistry. Associate Professor Bentley. Required of Juniors in Science, Course I. Quantitative Analysis. 4 8. Laboratory work four afternoons per week. Practice in gravimetric and volumetric analysis. Manual: Thorp. Associate Professor Bentley. Required of Juniors in Science, Course I.

9.	Quantitative Analysis 4
	Second Course. Analysis of agricultural and food products.
	Professor Menke.
	Required of Seniors in Science, Course I.
10.	Technical Chemistry3
	Three times per week throughout the year. A study of industries having chemical principles and processes for a basis. Manuals: Wagner, Sadtler.
	Required of Seniors in Science, Course I.
II.	Physical Chemistry
	Chiefly laboratory work. Determination of molecular weights according to the various methods in common use. Thermo-chemical work, measurement of electric conductivity of electrolytes. Practice with polariscope, refractometer, etc.
	Associate Professor Bentley.
	Required of Seniors in Science, Course I.
12.	Metallurgy
	Three times a week throughout the year. Smelting and refining of ores and ore dressing products. Reduction to metals. *Professor Menke.*
	Required of Seniors in Science, Course I., and during the first term, of Seniors in Engineering Courses.
13.	Assaying 4
	Class meets at convenience of the instructor. Preparing and testing reagents, making cupels, etc., and assaying samples of furnace and mill products.
	$Professor\ Menke.$ Required of Seniors in Science, Course 1.
14.	Graduate Work.
	The professors will direct the work of such competent students as may desire to pursue a course of advanced study and research.
	PHYSICS.
I.	General Physics
	Recitations four times and laboratory work one afternoon per week throughout the year. Recitations

and experimental lectures on mechanics, sound, heat, light, magnetism and electricity. Text books: Stewart's Heat; Sylvanus Thomson's Electricity and Magnetism; Hall & Bergen's Laboratory Handbook.

Professor Menke.

2. Physical Measurements.

Laboratory work for four hours for scientific, two hours per week for engineering students. Course 2 includes measurements in mechanics, sound, heat, light, magnetism and electricity. Manual: Sabine's Laboratory Course in Physics.

Associate Professor Bentley.

Required of Sophomores in Science, Course I., and in Engineering Courses.

MATHEMATICS, ASTRONOMY, AND LOGIC.

HARRISON RANDOLPH, Professor. G. W. DROKE, Associate Professor.

The following courses of instruction are offered by the Mathematical Department:

I. ELEMENTARY MATHEMATICS.

I.	Algebra2
	Beginning with simultaneous quadratic equations,
	through theory of logarithms, binomial theorem,
	indeterminate coefficients and theory of numbers.
	Text-book: Wentworth.
	D . D . I.I.

Professor Randolph, Associate Professor Droke.

Required of Freshmen in Arts and Engineering, in Science, Course I., and in Normal Course.

Text-books: Wentworth's Geometry, Bowser's Trigonometry.

Professor Randolph, Associate Professor Droke.

Required of all Freshmen.

II. ELEMENTARY MATHEMATICS.

3.	Plane and Spherical Trigonometry, Elementary Theory of Equations
	First term. Text-books: Bowser's Trigonometry, Wentworth's Algebra.
	$Professor\ Randolph.$
	Required of Sophomores in Arts, Course III, and of Sophomore Engineering Students.
4.	Analytic Geometry of Two Dimensions 5
	Second term. Text-book: Puckle's Conic Sections.
	Professor Randolph.
	Required of Sophomores in Arts, Course III, and of Sophomore Engineering Students.
5.	Course in Differential and Integral Calculus for Engineering Students.
	This course, designed for engineering students, will be completed at the end of the first term. Recita- tions five times a week. Text-book: Osbornə's Dif- ferential and Integral Calculus.
	Professor Randolph, or Associate Professor Droke.
, II	I. INTRODUCTORY TO HIGHER MATHEMATICS.
6.	Differential and Integral Calculus
	$Professor\ Randolph, \ or\ Associate\ Professor\ Droke.$
	Required of Juniors in Arts, Course III.
	IV. SENIOR COURSES.

Required of Seniors in Arts, Course III.

8. Theory of Equations. Differential Equations. 4
Second term. Todhunter's Theory of Equations,
Johnson's Ordinary and Partial Differential Equations.

Professor Randolph.

Required of Seniors in Arts, Course III.

V. ADVANCED COURSES.

9. Theory of Surfaces.

This course is a continuation of Course 7. General theory of twisted curves and surfaces, including curvature, lines of curvature and allied subjects in differential geometry.

Professor Randolph.

10. Modern Synthetic Geometry.

For reference: Richardson & Ramsey.

Associate Professor Droke.

11. Differential Equations.

This course is a continuation of Course 8. For reference: Forsyth's Differential Equations.

Professor Randolph.

12. Trilinear Coordinates.

Their application in pure and analytic geometry.

Associate Professor Droke.

13. Higher Plane Curves.

General properties of algebraic curves and their singularities. For reference: Salmon's Higher Plane Curves and Clebsch Vol. I.

Professor Randolph.

14. Analytical Mechanics.

Statics, dynamics, and elements of the theory of the potential. Routh's Analytical Statics, Vols. I and II. Williamson's Dynamics. Prerequisite: Analytical Geometry and a thorough knowledge of Differential and Integral Calculus; *i. e.* Courses 4, 5 or 6, and 7.

Professor Randolph.

ASTRONOMY.

I. I	D	escri	ht	1710	4	ct	vai	110	1111	,
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From March 15 to end of session. Text-book: Young.

Associate Professor Droke.

LOGIC.

I. Deductive and Inductive Logic.

From beginning of session to March 15. Text-books: Davis's Elements of Deductive Logic, and Elements of Inductive Logic.

Professor Randolph.

BIOLOGY AND GEOLOGY.

PROFESSOR MCNEILL.
ASSOCIATE PROFESSOR MEEK.

BIOLOGY.

Recitations twice, and laboratory two hours per week. A brief study of typical plants and animals with reference to structure, development and relationship. This course is introductory to both Botany and Zoology. Text-books: Parker's Biology; laboratory manual, Boyer's Practical Biology.

Professor McNeill.

Required of Freshmen in Science, Courses II, III, IV, and V, and of Sophomores in Science, Course I.; alternative with Botany 1 or Zoology 1 for Freshmen in Arts Courses and in Normal Course.

BOTANY.

One lecture a week for the first term, with four hours laboratory work. Six hours a week laboratory work for the second term. Designed to give students a general knowledge of the classification of plants and a more particular acquaintance with the seed plants

	and ferns of Northwest Arkansas. Text-book: Gray's
	Manual of Botany.
	$Professor\ McNeill.$
	Required of Sophomores in Science, Courses II, III, IV, V; alternative with Biology 1 or Zoology 1 for Freshmen in Arts Courses and in Normal Course.
2.	General Morphology of Flants3
	Recitations twice, laboratory work two hours per week, first and second terms. This course must be preceded by Course 1. It should precede Course 4, but does not do so necessarily. Text-book: Goebel's Outlines of Classification. Professor MeNeill.
	2 is offered only in odd years, and is required of Juniors in Science, Course II. alternative with 4 for Juniors in Science, Courses II and III.
3.	Bacteriology3
	Six hours a week laboratory work for the first term. Text-book: Hueppe's Methods of Bacteriological Investigations.
	Professor McNeill.
	Required of Juniors or Seniors in Science, Course II, and alternative with 2 for Juniors in Science, Courses III or IV.
4.	Physiological Botany3
	Laboratory work six hours a week during the school term.
	Professor McNeill.
	3 is offered only in even years, 4 in odd years, and they are alternative with 2. Required of Juniors and Seniors in Science, Course II; alternative with 2 and 3 for Juniors in Science, Courses III and IV.
5.	Advanced Work in Histology or Systematic Bot-
	any3
	$Professor\ McNeill.$
	Required of Seniors in Science, Course II.
	ENTOMOLOGY.
I.	General Entomology3
	Recitations twice, laboratory work two hours per week. Designed to give a general knowledge of the structure, habits, and classification of insects and a more particular knowledge of the orders Orthoptera and Lepidoptera. Text-book: Comstock's. Labora-

	tory Guide: French's Butterflies of the Eastern United States, and other manuals. Professor McNeill.
	Required of Juniors in Science, Course II.
2.	General Entomology5
	This course is the same as 1, with four hours per week additional laboratory work.
	Professor McNeill.
	Required of Juniors in Science, Course III.
3.	Economic Entomology
	This course is a continuation of 2, and must follow it. The systematic work for each student will be restricted to one order or family of which he will be expected to make a special study. Special attention will be given to breeding and rearing of insects and to working out the life histories of those species that are little known.
	Professor McNeill.
	Required of Seniors in Science, Course III.
	ZOOLOGY.
I.	General Zoology
	One recitation and four hours laboratory work per week. A general course in animal morphology and systematic zoology. The systematic work will be restricted to vertebrates. Text-book: Packard's Zoology. Laboratory Guide: Jordan's Manual of Vertebrates.
	Associate Professor Meek.
	Required of Sophomores In Science, Courses II, III, IV and V; alternative with Biology 1 and Botany 1 in Arts and Normal Courses.
2.	Vertebrate Anatomy
	Recitations twice per week and dissection of typical vertebrates. Text-book: Weidersheim's Anatomy of Vertebrates.
	Professor McNeill.
	Required of Juniors in Science, Course IV. Offered only in even years,
3.	Neurology.
	Lectures twice a week, second term. Associate Professor Meek.
	Required of Juniors whose course requires Psychology

4.	Animal Histology
	Two recitations and eight hours in the laboratory per week, first term. Open only to students who have taken course 2. Text-book: Schafer's Essentials of Histology. Professor MeNeill.
	Required of Seniors in Science, Course IV. Offered only in even years.
5.	Embryology6
	Recitations three times, and laboratory work six hours a week, second term. Open only to students who have taken course 4. Text-book: Foster and Balfour's Elements of Embryology.
	Professor McNeill.
	Required of Seniors in Science, Course IV. Offered only in odd years.
6.	Ichthyology.
	Lectures once, and laboratory work four hours a week. Advanced work in the study of fishes.
	Associate Professor Meek.
	GEOLOGY.
	OEOEOG1.
I.	General Geology
	Recitations and lectures three times a week. Structural, dynamical, and historical Geology, with occasional field excursions. Text-book: Le Conte's Elements or Dana's Manual.
	Associate Professor Meek.
	Required of Juniors in Science Courses; alternative with Course 3 for Juniors in Science, Course 1.
2.	Practical Geology
	Field work and laboratory practice throughout the year. Field work consists in making geological sections and geological maps, using United States Geological Survey methods. Laboratory practice consists of a study of building and ornamental rocks, Text-book: Merrill's Building and Ornamental Rocks of the United States. This course will accompany or follow courses 1 or 3. **Associate Professor Meek.**
	Required of Juniors in Science, Course V.
2	
3.	Economic Geology
	deposits and valuable rock materials. Field work

				per week.	This
course	is designe	d for e	ngineering	students.	Text-
book:	Tarr.				

Associate Professor Meek.

Required of Juniors in Civil Engineering and of Seniors in Science, Course V; alternative with Course 1 for Juniors in Science, Course I,

Associate Professor Meek.

Required of Seniors in Science, Course V, alternative with 5.

Recitations and lectures once a week, laboratory four hours per week. Fossils studied will be selected each year.

Associate Professor Meek.

Required of Seniors in Science, Course V; alternative with 4.

PSYCHOLOGY AND ETHICS.

PRESIDENT BUCHANAN.

The course offered in these subjects consists of recitations, lectures, and full and free discussions by the members of the class. In connection with a careful examination of the views and opinions of leading thinkers, students are encouraged to study their own mental phenomena and to subject to the test of individual consciousness the various theories which come under investigation. Due attention is given to the recognized contributions of modern Physiology to Psychology. As introductory to this part of the subject, the Professor of Biology gives a course of lectures with accompanying laboratory work in Neurology, which all students whose course includes Psychology, are required to attend during a part of the second term of the Junior year.

I.	Psychology3
	Three times a week, first and second terms.
	Required of Seniors in Arts, Courses I., III., and IV., and of Seniors in Science, Courses II., III., IV. and V.
2.	Ethics
	Twice a week, third term.
	Required of Seniors who take Psychology.
3.	Political Economy2
	Lectures and recitations twice a week. Attention is specially directed to the leading questions of the day, such as public finance, tariff, railway, and other corporate industries, etc.
	Required of Juniors in Arts.

ENGLISH AND MODERN LANGUAGES.

R. H. WILLIS, Professor.
IDA PACE, Associate Professor.
EDNA ALLEN,
LILA DAVIES,
CLARA EARLE,
MOLLIE REMY,

Acting Assistants.

For the lower classes in each language the aim is to acquire a practical and accurate use of the language as it exists to-day; and the only proper basis for this is an exact knowledge of grammatical forms and of the elementary principles of syntax. In the higher classes the languages are studied historically and philologically with a view to general culture and to the best mental discipline.

Every student has the opportunity to become thoroughly acquainted with the English language, to learn to speak and write it correctly and forcibly. A course of parallel reading is prescribed for each class, and an extensive course of general reading is published in the Library for the benefit of all. It is carefully selected and graded, and affords much variety in style and matter.

In the foreign languages the first and constant aim is correct pronunciation and excellence in translation and composition; but the syntactical and etymological relations existing between these languages and the English are emphasized, and they are thus constantly contributing to the student's knowledge of English and to his power of expression. Besides the above instruction there are, in each foreign language, additional recitations devoted wholly to conversation and sight reading.

The following are the courses for 1896-'97:

ENGLISH.

I. English Language and Literature..... 3

	Meiklejohn's English Language (complete); nine essays (chiefly narrative and descriptive) criticised and corrected by the instructor and copied by the student; thorough drillin English metres. For reference: Bain, Blair, Clark, Hart, Hill, Genung, Kames. **Professor**——————————————————————————————————
	Required of all Freshmen.
2.	American Literature; Prose Style
	Study of American literature and of representative American and English authors with rhetorical analysis and criticism: Irving, Ruskin, Carlyle, Burke, Goldsmith, Swift, Addison, Bacon, three essays. Text-books: Watkins's American Literature; Garnett's English Prose. For topical study: Genung's Rhetoric. For reference: Arnold, Hunt, Manly, Minto, Morley, Pancoast, Shaw, Taine, Welch, and others. Miss Pace.
	[In 1897-'98 the authors will be: Hawthorne, Thack-
	eray, Macaulay, DeQuincey, Scott, Johnson, Steele,

Required of Sophomores in Arts and Engineering, and of Sophomores in Science, Courses II., III., IV., and V. This course may be taken for two consecutive years.

Milton.]

Dryden, Pope, Gray, Burns, Coleridge, Scott, Byron, Poe. Bryant, Longfellow, Tennyson; three essays. Hale's Longer English Poems and other critical editions. For reference and topical study: Brooke, Gosse, Hallam, Lowell, Oliphant, Pancoast, Saintsbury, Shaw, Taine, Ward, and others.

Miss Pace.

[In 1897-'98 different selections or different poets of this period will be studied.]

Required of Juniors in Arts, Course II. This course may be taken for two consecutive years.

4. Middle English and Early Modern English...2
Literary history of period from Chaucer to Milton; reading of representative authors with historical, philological, and literary criticism; three essays. Morris's or Sweet's Chaucer, Kitchin's Spencer, Book II., Verity's Milton, Sprague's plays of Shakespeare and the Arden edition. For reference: Bucknell, Coleridge, Dowden, Gervinus, Hazlitt, Hudson, Ulrici, and others.
[in 1897-'98 there will be different readings from the same authors.]

Professor Willis.

Required of Juniors in Arts. This course may be taken for two consecutive years.

Professor Willis.

Required of Seniors in Arts, Course II. The readings will be mostly changed for 1897-'98.

Professor Willis.

Required of Seniors in Arts.

7. Advanced Anglo-Saxon and English Philology.2
Ten Brink's Old English Literature (selections);
Cook's Sievers's Grammar, and one of the following

courses of reading with critical and philological study: (a) Alfred's Orosius (Sweet); Judith (Cook); Elene (Kent); or (b) Exodus and Daniel (Hunt); Beowulf (Harrison and Sharpe). For reference: Henry's Comparative Grammar, Bosworth's Anglo-Saxon Dictionary, Skeat's Etymological Dictionary, Mayhew's Synopsis of Old English Phonology, Sweet's Primer of Phonetics, Kluge's Etymological Dictionary, Balg's Glossary of Gothic.

Miss Pace.

For graduate students who have completed 4, 5 and 6.

Professor Willis.

For graduate students who have completed 4, 5 and 6.

For graduates who have completed 2, 3 and 4.

NOTE—At present not more than one of the above graduate courses will be given in any one year to resident students.

GERMAN.

Uhland, and other poets; three lyric gems memorized.

Professor Willis.

Required of Juniors in Arts, Course II., and of Juniors in Science. A separate course of sight reading and conversation may be given once a week.

2.	Schiller and German History 3
	Schiller's Jungfrau von Orleans; Beresford-Webb's Historical Readings; Bernhardt's Deutsche Litteraturgeschichte; grammar and composition convinued; original composition.
	Miss Pace.
	Required of Seniors in Arts, Course II.
3.	Goethe and Lessing
	Goethe's Iphigenie and prose selections; Lessing's Nathan der Weise. For reference in 2 and 3: Scherer's German Literature; Whitney's and Brandt's Grammars; Behaghel's Historical Grammar; Jagemann's Syntax. Dictionaries: Thieme-Preusser, Heath, or Adler (Quarto).
	Professor Willis
	Required of Seniors in Arts, Course II.
4.	German at Sight and Conversation2
	Volkmann's Kleine Geschichten; Benedix's Die Hochzeitsreise; Riehl's Der Fluch der Schoenheit; Chamisso's Peter Schlemihl; Worman's First and Second Books.
	Professor Willis
	Required in connection with 2, 3, and 5.
5.	Scientific German
	tions from German Scientists. Professor Randolph.
	Required of Seniors in Science, and of Seniors in Arts, Course III.
6.	
0.	Graduate Courses in German
	be taken at the professor's convenience: (1) Life and Works of Goethe, (2) of Schiller, (3) of Lessing, (4) Old and Middle High German, (5) Gothic and Germanic Philology.
	For graduates who have completed 2, 3, and 4.
	-2, 3, and 4 have different Readings in 1897-'98, and each may be taken two consecutive years.
	FRENCH.
I.	Modern French, Elementary3
	Edgren's Grammar with composition; Whitney's Reader, containing simple prose tales and extended selections from Daudet, Dumas, Souvestre, Michelet,

2.

3.

4.

5.

ARRAMOND INDUSTRINE CHIVERSITY / J
Lamartine, and other nineteenth century authors, and a few lyrics from Victor Hugo, Béranger, Gautier, and other poets. Miss Pace.
Required of Freshmen in Arts, Courses II. and III., of Freshmen in Science, Courses II., III., IV., V., and of Sophomores in Science, Course I. A separate course of sight reading and conversation may be given once a week.
Nineteenth Century Writers, Advanced 2
Luquiens's French Prose (Dumas, Talne, and others); Victor Hugo's Hernani; Duval's Littérature Française; grammar and composition continued. For reference in 2 and 3: Whitney's Grammar; Harrison's French Syntax; Brachet's Historical Grammar; Saintsbury's History of French Literature and other larger works. Dictionaries: Spier's and Surenne's Quarto, Heath's, The Classic. **Required of Sophomores in Arts, Course II.**
The French Classic Drama
Critical study of representative authors: Corneille's Polyeucte: Racine's Athalie; Molière's L'Avare and Le Tartuffe; grammar and composition continued; original composition; Duval's Littérature.
Miss Pace.
Required of Juniors in Arts, Course II.
French at Sight and Conversation
Fontaine's Lecture et Conversation; Histoire de France; Balzac's Le Curé de Tours.
Miss Pace. Required in connection with 2, 3, and 5.
Scientific French
Herdler's Scientific French Reader and other selections from French scientists.
Professor ————

One of the following courses of one year each may be taken at the professor's convenience: (1) Life and Works of Molière, (2) of Corneille and Racine, (3) of Voltaire, (4) of Victor Hugo, (5) Old French.

For graduates who have completed 2, 3, and 4. NOTE.—2, 3, and 4, have different readings in 1897-'98, and each may be taken for two consecutive years.

SPANISH.

I.	Modern Spanish, Elementary
	Edgren's Spanish Grammar with composition; Worman's First Spanish Book; Knapp's Spanish Readings, containing extracts from Fernan Caballero, Se.gas, Lafuente, Valera, and other authors. Professor————
	Allowed as a substitute for French 2 and 4, or for French 3. Ordinarily this class will not be formed for less than five students. A separate course of sight reading and conversation may be given once a week.
2.	The Spanish Classic Writers
	Selections from Don Quixote; Lope's La Discreta Enamorada; Calderon's La Vida es Sueño, and El Alcaide de Zalamea; Conant's Spanish Literature; grammar and original composition. For reference; Knapp's Grammar; Sismondi's Literature; Clarke's Spanish Literature; Velasquez's Quarto Dictionary.
	Professor Willis.
	Allowed as a substitute for French 3.
3.	Spanish at Sight and Conversation
	Moreto's El Desden con El Desden; Herrero's La Independencia; Worman's Second Book.
	Professor Willis.
	Allowed as a substitute for French 4.
	ITALIAN.
I.	Elementary Course
	Grandgent's Grammar with composition; Italian Principia II. (readings from standard authors selected for beginners); Sonzogno's Letteratura
	Italiana.
	Elective at the professor's convenience, but will not be taught for less than five students.
2.	Advanced Course
	Nota's La Fiera; Ongaro's Rosa dell' Alpi; Tasso's Gerusalemme Liberata; grammar and composition
	continued. For reference: Cuore's Grammar: Sismondi's Literature. Dictionary: Milhouse, or
	Baretti. Elective at the professor's convenience.

ANCIENT LANGUAGES.

J. C. FUTRALL, Professor. E. F. SHANNON, Associate Professor.

In this department the following courses are offered.

LATIN.

3. Tacitus and Roman Life in Latin Prose and Verse, by Peck and Arrowsmith......2

Designed to give to those students who do not propose to take courses 4 and 5, a better reading knowledge of the language than can be attained by the completion of course 2; sight reading.

Associate Professor Shannon.

Elective for students who have completed Course 2.

4. Junior Course......3

The object of this course is to give the student greater facility in turning English into Latin and Latin into English. The study of the Grammar is continued, and exercises for translation into Latin, based on the text, are prepared by the Professor. Parallel reading is assigned from which the translations for examination are taken. Roman Literature. The authors read in '96-'97 will be Livy, Horace, Seneca and Pliny.

Professor Futrall.

5.	Senior Course3
	This course is a continuation of Course 3. The author read in '96-'97 will be Cicero, Juvenal, Catullus and Plautus. Translation at sight of idiomatic English into idiomatic Latin. The translations for examination are taken partly from the paralle reading assigned, and partly from Latin that the class has not seen. Professor Futrall.
	Elective for students who have completed 4.
6.	Graduate Course.
	Students who have completed Course 5 may take, at the Professor's convenience, a graduate course which for '96-'97, will consist of the Life and Works of Horace.
	GREEK.
I.	Elementary Course3
	White's Beginner's Greek Book, with selections for reading. A thorough mastery of the forms and constructions given in this book is required.
	Associate Professor Shannon.
	Required of Freshmen in Arts, Course I.
2.	Xenophon and Lysias3
	This course is intended to familiarize the student with all the ordinary Attic forms and constructions frequent exercises in oral and written translation of English into Greek, based upon the text read, are given, and some practice in sight reading.
	Associate Professor Shannon.
	Required of Sophomores in Arts, Course I.
3.	Homer, Herodotus and Thucydides
	Systematic study of the grammar; exercises for translation into Greek, prepared by the Professor; sight reading.
	Professor Futrall. Required of Juniors in Arts, Course I.
1	Plato, Sophocles and Aristophanes
4.	One dialogue of Plato; one play each of Sophocles and Aristophanes; Goodwin's Greek Moods and Tenses.
	Professor Futrall.
	He was a second of the second

Elective for students who have completed 3.

5. Graduate Course.

In '96-'97 graduate students may take under the direction of the Professor a course in either the Attic Orators or the Drama.

Text-books in Latin: Gildersleeve's Grammar (Lodge); White's English-Latin Lexicon; Harper's Latin Lexicon; Liddell's History of Rome; Bender's Roman Literature; Crutwell's Roman Literature; any approved edition of the Latin authors may be used except when certain editions are prescribed.

Text-books in Greek: Goodwin's Revised Greek Grammar; Goodwin's Greek Moods and Tenses; Liddell and Scott's Greek Lexicon; Collar and Daniell's Prose Composition, based on Xenophon's Anabasis; any approved edition of the Greek authors may be used except when certain editions are prescribed.

HISTORY AND PEDAGOGICS.

J. F. HOWELL, Professor.

HISTORY.

I.	Constitutional History
2.	Required of Freshmen in Arts, Course IV, and in the Normal Course. General History
3.	Required of Sophomores in Arts, Science, and the Normal Course. English History
4.	Ancient History
5.	Required of Juniors in Arts, Course IV. Ecclesiastical History

6.	European History2
	From the fall of Rome to the present time. Lectures, recitations on assigned reading, and topical research.
	Required of Seniors in Arts, Course IV.
7.	American History2
	From the earliest explorations to the present time. Lectures, recitations on assigned periods, and topical research.
	Required of Seniors in Arts, Course IV.
8.	French History
	Twice a week, first term.
	Required of Seniors in Arts, Course II.
9.	German History2
	Twice a week, second term.
	Required of Seniors in Arts, Course II.
NOTE-	-Graduate courses in History will be given at the Professor's convenience.
	PEDAGOGICS.
I.	Pedagogy2
1.	
	Taxt-book: White's Flaments of Padagagy with
	Text-book: White's Elements of Pedagogy, with lectures and collateral reading; methods.
	Text-book: White's Elements of Pedagogy, with lectures and collateral reading; methods. Required of Freshmen in the Normal Course.
2.	lectures and collateral reading; methods. Required of Freshmen in the Normal Course.
2.	lectures and collateral reading; methods.
2.	lectures and collateral reading; methods. Required of Freshmen in the Normal Course. School Management
<i>2. 3.</i>	lectures and collateral reading; methods. Required of Freshmen in the Normal Course. School Management
	lectures and collateral reading; methods. Required of Freshmen in the Normal Course. School Management
	lectures and collateral reading; methods. Required of Freshmen in the Normal Course. School Management
	lectures and collateral reading; methods. Required of Freshmen in the Normal Course. School Management
3.	lectures and collateral reading; methods. Required of Freshmen in the Normal Course. School Management

5.	Science of Education2
	Twice a week, first term. Text-book: Palmer's Science of Education. Elective for Juniors and Seniors.
6.	
0.	Philosophy of Education
	Elective for Juniors and Seniors.
	alcontered builded and believed
	MILITARY SCIENCE AND TACTICS.
	1st Lieut. Elias Chandler, 16th U. S. Infantry, Professor.
I.	Practical Work3
1.	Three hours per week. In school of the soldier, squad, platoon, company and battalion, close and extended order; ceremonies of guard mounting, dress
	parade, inspection and review; camping, guard duty, target practice, laying out field works, and signalling. In this work, the cadet officers act as instructors, thus putting into practice the knowledge
	gained in previous years. Required of all male students over 15 years of age.
2.	Recitations and Lectures
2.	One hour per week. Infantry Drill Regulations
	(U. S. Army, Part I.). Manual of Guard Duty (U. S. Army),
	Required of all Male Freshmen.
3.	Recitations and Lectures
	One hour per week. Infantry Drill Regulations (U. S. Army Part II.). Small Arms Firing Regulations (Blunt).
	Required of all Male Sophomores.
4.	Recitations and Lectures
	One hour per week. Military Field Engineering (Beach). Military Signalling (United States Army Signal Code). Required of all Male Juniors.
5.	Recitations and Lectures
5.	One hour per week. Service of Security and Information (Wagner). Military Law (Winthrop).
	Required of all Male Seniors.

ELOCUTION.

JESSIE L. CRAVENS, Instructor.

The course of instruction comprises a thorough training in the essentials of expression.

I. Physical Training.

The course includes thorough drill in:

- Light Gymnastics, To promote health; to give vigor and tone.
- 2. Aesthetic Gymnastics,
 (In accordance with the laws of Delsarte)
 For the attainment of grace, precision, and
 harmony in action.

2. Voice Culture.

- Respiration.
 To breathe naturally. Economy of breath.
 Drill in deep, effusive, expulsive, and explosive forms, as a basis for voice work.
- Voice.
 Exercises for the production and cultivation of open, pleasing, and musical tones. To avoid shrill and loud tones.
- Articulation.
 To acquire a correct use of the articulatory organs. Exercises upon elementary sounds, separately and in combination. Syllabication, accent, and pronunciation. Defects of speech.

3. Expression — Reading, Recitation and Oratory. Modulation, inflection, emphasis, pitch, quantity and movement. Qualities. Application of tone effects. Light and shade in tone. Transitions. Pause effects. Facial Expression. Action and repose. Naturalness. Clearness.

TEXT-BOOKS.

The books in use and for reference are Southwick's Elocution and Action, Stebbins's System of Expression, Fulton and Trueblood's Practical Elocution, Hudson's Shakespeare, Werner's Readings and Recitations, etc.

This department is open to all students in the Collegiate Classes and to the second year students of the Preparatory Department. Twice a week for each class.

MUSIC.

I. PIANOFORTE, HARMONY, AND MUSICAL HISTORY.

ANNA H. EDMISTON.

FIRST YEAR.

Theoretical Rudiments. Graded Materials for Study, W. S. B. Matthews; Kohler's Etudes, Op. 50. MacDougall's Melody Playing; thirty selected studies from Heller. Mason's Technics.

SECOND YEAR.

Matthew's Phrasing and Interpretation. Loeschhorn's Etudes, Op. 66 and 67. Bach's Lighter Pieces. Le Couppey's, Op. 26. Krause's Trill Studies, Op. 2. Dorings, Op. 24. Mason's Technics.

Selections from Mozart, Schumann, Mendelssohn, and the best modern composers.

THIRD YEAR.

Harmony and History of Music. Heller's Art of Phrasing. Cramer's Select Studies—VonBulow Edition. Bach's Inventions.

Selected Octave Studies.

Haberbier's Etude Poesies, Op. 53.

Clementi's Gradus ad Parnassum.

Mason's Technics.

Selections from Haydn, Beethoven, Schubert, Schumann, Chopin, and the best European and American composers.

FOURTH YEAR.

Analytical Study of the principal works of the Great Masters.

Chopin's, Op. 10 and 25.
Bach's Preludes and Fugues.
Cramer's Selected Studies.
Moscheles, Op. 70.
Kullak's Octave Studies.
Kessler's, Op. 20.
Schumann's Etudes.

Mason's School of Octaves and Brayura.

The aim of this course is the development of a high degree of technique, interpretation and general musical intelligence—to make musicians as well as performers.

Classes in Normal Training will be formed for those who wish to become teachers of music.

II. VOICE CULTURE AND VOCAL MUSIC. MRS. A. D. DAVIS.

True cultivation of the voice consists in the development of pure tone, and its easy, natural use and control in singing.

Attention is given to respiration as an art applicable to singing; position of mouth and tongue, and control of the face in singing; emission of voice on vowels; exercises for uniting the registers; practice on sustained tones in the entire range of the voice; exercises in agility and velocity; exercises in articulation of consonants and vowels; study of delivery and expression; the formation of good style, etc.

Garcia's Vocal Exercises, Concone, Bordogni, Marchesi, Panseron, and other technical works; songs of the English, Italian, French and German Schools; church music; study of opera and oratorio.

TERMS.

18 weeks, two lessons per week, Pianofort	e
and Voice Culture, each	. \$22.50
Harmony in class	5.00
Use of pianoforte for practice	. 2.50
Tuition payable in advance.	
27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

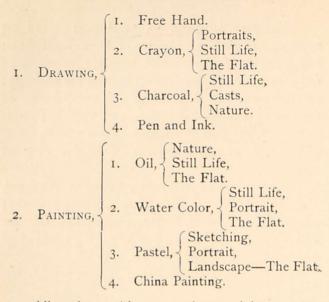
No deduction will be made except in case of prolonged illness.

Instruction in Guitar and Mandolin playing given.

ART DEPARTMENT.

MISS AMARINTHIA LEVERETT.

The following branches will be taught in this department.



All students with no previous training are required to take a short course in free hand drawing before beginning work in any other branches.

TERMS.

Tuition, \$4 per month, payable in advance.

The School of Agriculture.

FACULTY.*

J. L. BUCHANAN, President.

A. E. MENKE, Chemistry and Agriculture.

W. B. BENTLEY, Chemistry.
H. RANDOLPH and G. W. DROKE, Mathematics.
J. F. McNeill and S. E. Meek, Biology. R. H. WILLIS and IDA PACE, English.

E. CHANDLER, Military Science and Tactics. R. R. DINWIDDIE, Veterinary Science.

W. F. BATES, Farm Work and Dairying.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

*All students in this school must consult Professor Menke immediately after registration.

COURSE IN AGRICULTURE.

The School of Agriculture is designed and organized to give both theoretical and practical instruction in the various branches of agriculture. Special preparation is needed no less for the pursuit of agriculture than for law, medicine, or divinity. The method of instruction now employed is classroom work, accompanied by practical demonstrations in the field, dairy, and laboratories. The equipment for practical work will compare favorably with that of other agricultural colleges; the machinery is new and of the most improved pattern, all selected with a view to its economic value. The dairy has been recently fitted up with Laval's separator and other necessary implements. We have a large vineyard and an orchard for practical horticultural work; a herd of grade Jerseys, so that the students can be instructed in the work that occurs on either a stock, dairy, fruit, or cropped farm.

FARMERS' COURSE FOR CERTIFICATE IN AGRICULTURE.

FRESHMAN YEAR.

Biology 1, (General Biology)	3 3 ry) 5
SOPHOMORE YEAR.	
Veterinary Anatomy	
Agriculture	
Dairy Husbandry (second term)	4
Stock Breeding	

Students who have completed this course may take the Junior and Senior years in the College of Science and graduate with the Degree of Bachelor of Science.

The College of Mechanic Arts and Engineering.

FACILLTY *

J. L. BUCHANAN, President, Political Economy. C. V. Kerr, Mechanical Engineering, Superintendent of Mechanic Arts.

A. E. MENKE and W. B. BENTLEY, Chemistry and

Physics.

H. RANDOLPH and G. W. DROKE, Mathematics. J. F. McNeill and S. E. Meek, Biology and

Geology.

R. H. WILLIS and IDA PACE, English. J. F. HOWELL, History and Pedagogics. E. CHANDLER, Military Science and Tactics. W. N. GLADSON, Electrical Engineering. J. J. KNOCH, Civil Engineering. MACK MARTIN, Machine Shop, Mechanics.

F. P. NICHOLAS, Wood Shop. G. W. BASHAW, Foundry and Forge Shop. C. S. DUGGANS, Engineer.

JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

*Students in this college must consult Professor Kerr immediately after registration.

GENERAL DESCRIPTION OF COURSES IN ENGINEERING.

Mechanical Engineering directs the design and construction of all forms of machines, and their installation in machine shops, mills, and factories. It directs the design, construction, erection, and operation of boilers, steam and gas engines, locomotives, turbines, and other prime movers; of pumping machinery for waterworks; of machinery and apparatus for the manufacture of ice, the distribution of refrigeration from central stations and the heating and ventilation of buildings. Since the utilization of the forces and materials of nature is accomplished in nearly all classes by machines, or by processes working through machinery, it is evident that mechanical engineering is the basis of all industries.

Civil Engineering embraces the location and construction of railroads, canals, waterworks, sewerage systems, foundations on land and in water, tunnels, and superstructures; the surveys, improvements, and defenses of coasts, harbors, rivers, and lakes; the application of mechanics, descriptive geometry, and graphics to the design and construction of arch bridges, roofs, truss and suspension bridges; the irrigation and drainage of lands; and the location and maintenance of public roads.

Electrical Engineering deals with the design and construction of dynamos and motors; the distribution of electricity for use in illumination, or for driving machinery; the construction and operation of electric railways; the erection and management of telegraph and telephone lines; and with electrolysis and welding of metals. Theoretical and applied electricity, and mechanical engineering are naturally the leading subjects. Theory is treated in ample breadth and tested by experiments in well equipped laboratories, which affords the student a degree of facility in the use of machines and instruments acquired only by continued practice.

At the close of their senior year, all engineering students study a synopsis of the law of contracts, including competency, legality of agreement, consideration, construction and discharge of contracts;

and the forms of specifications and accompanying documents covering all branches of engineering work. Another important feature of the engineering courses is the *thesis*, an original work planned and executed by the student, the purpose of which is not only to prepare for special work after graduation but to indicate how much nature and education have done toward fitting the student for the engineering profession.

The courses of engineering offered are designed to supply not only mental training but the means of securing a livlihood in the professions to which they lead. It is believed that the most efficient way to teach theory is to unfold it to the student only so fast as he can apply it to the practical work of his course. He thus makes it his own, and theory becomes practice.

CIVIL, MECHANICAL AND ELECTRICAL ENGINEERING.

FRESHMAN YEAR.

	Hours per	r week
	1st	2d
	Term.	Term.
Geometry and Plane Trigonometry, (Math. 2)	. 3	3
Algebra, (Math. 1)		2
General Physics, (Physics 1)		5
English Language and Literature, (English 1)		3
Drawing, (M. E. 2 c.)	2	2
Machine Shops, (M. E. 12)	. 4	4
214 chine (216 ps, (21. 12. 12)		
SOPHOMORE YEAR.		
(Spherical Trigonometry, Analytical Geometry	1	
(Math. 3 and 4)		5.
Calculus, (Math. 6)		0.
		5
General Chemistry, (Chem. 3)		5
Physical Measurements, (Phys. 2)	2	2
or English and American Literature, (English.		2
Surveying and Highways, (C. E. 2)	2	2
Field Practice, (C. E. 3)		2
Descriptive Geometry $(C, E, 1)$	2	2:

MECHANICAL ENGINEERING COURSE FOR DEGREE OF

B. M. E.

JUNIOR YEAR.		
	Hours pe	r week,
		Term.
Calculus, (Math. 5.)		I CIMI
Steam Engines and Boilers, (M. E. 11)		3
Elements of Mechanism, Valve Gears and Ind		· ·
		3
cator Practice, (M. E. 4, 5, 6)		
Drawing: Machine Design, (M. E. 7)	2	2 2 2 5
Mechanical Laboratory, (M. E. 10)	2	2
Political Economy, (P. and E.,3)		2
Mechanics, (M. E. 12, 13)		5
Masonry Construction, (C. E. 9)		2
Dynamo Electric Machinery, (E. E. 7)	5	
SENIOR YEAR.		
Mechanics and Graphics, (M. E. 13, 14, 15)	5	
Fly-wheels and Governors, (M. E. 9)	2	
Metallurgy of Iron and Steel, Refrigeratio		
Heating and Ventilation, (Chem. 12, M.	E'	
16 17)	3	3
16, 17)Locomotive Mechanism, Electric Railways, (A	1	0
		0
E. 20, E. E. 10)	2	2
Gas Engines, Turbines, (M. E. 21, 19)	2	2 2 2 2 2 2 3
Pumping Machinery, (M. E. 18)		2
Engineering Laboratory, (C. E. 16)	. 2	2
Drawing: Boiler and Engine Design, (M. E.	8) 2	2
Contracts and Specifications, (E. E. 19.)		3
Thesis		ssaru.
		0
CIVIL ENGINEERING COURSE FOR DEGREE	OF B.	C. E.
JUNIOR YEAR.		
JUNIOR TEAR.	1st	2d
	Term.	Term.
Coloulus (Math 5)		reim,
Calculus, (Math. 5)		0
Steam Engines and Boilers, (M. E. 11)		3
Railroad Engineering, (C. E. 5)	3	2
Economic Geology, (Geology 3)	3	
Practical Geology, (Geology 3)	1	1
Political Economy, (P. and E., 3)	2	2
Mechanics, $(M. \ E. \ 12, 13)$		5
Masonry Construction, (C. E. 9)		2
Mine Engineering, (C. E. 10)		11771
Field Practice, (C. E. 6)	2	9
Drawing, (C. E. 8)	2	2 2
Diuming, (U. D. O)		-

SENIOR YEAR.

1	dours pe	r week.
	1st	2d
	Term.	Term.
Mechanics and Graphics, (M. E. 13, 14, 15)	. 5	
Metallurgy of Iron and Steel, (Chem. 12)	. 3	
Pumping Machinery, (M. E. 18)		2
Sanitary Engineering, (C. E. 12)	. 2	
Arches and Dams, (C. E. 14)	. 1	
Drawing: Stereotomy, (C. E. 13)	. 2	2
Waterworks, (C. E. 15)		3.
Roofs and Bridges, (C. E. 11)	. 2	4
Field Practice, (C. E. 17)	. 2	2
Contracts and Specifications, (C. E. 19)		3
Engineering Laboratory, (C. E. 16)	. 2	2
Thesis	Neces	sary.
ELECTRICAL ENGINEERING COURSE FOR D	EGRE	E OF
B. E. E.		
В. Е. Е.		
JUNIOR YEAR.	1st	2d
	Term.	Term.
Calculus, (Math. 5)	. 5	
Steam Engines and Boilers, (M. E. 11)		3
Dynamo Electric Machinery, (E. E. 7)		
Political Economy, (P. and E., 3)		2
Theory of Alternate Currents, (E. E. 8)		2
Elements of Mechanism, Valve Gears and Indi	-	
cator Practice, (M. E. 4, 5, 6)	. 3	3
Electrical Laboratory, (E. E. 5)	. 2	2 2
Technical Drawing, (E. E. 3)		2
Mechanics, (M. E. 12, 13)		5
SENIOR YEAR.		
DAILTON PAIRE		
Mechanics and Graphics, (M. E. 13, 14, 15)	. 5	
Metallurgy of Iron and Steel, (Chem. 12))	
and Alternate Current Machinery, (E. E. 9)	} 3	2,
Turbines, (M. E. 19)		9
Theory of Alternate Currents, (E. E. 8)	. 2	2 1
Floatric Poilways (F F 10)	. 4	2
Electric Railways, (E. E. 10) Engineering Laboratory, (C. E. 16)	. 2	-
Absolute Measurements, Photometry, (E. E. 13)	2) 2	1
Technical Drawing, (E. E. 4)	2) 2 2 2 2	
Electrical Laboratory, (E. E. 6)	. 2	2 2
Electrical Design, Telephone and Telegraph		
(E. E. 13, 11)	. 1	2
Contracts and Specifications, (C. E. 19)		2 3
Thesis	Neces	
Zanger and a second sec	_,,	3.

SHORT COURSE IN ELECTRICAL ENGINEERING.

This course is intended for students lacking time and preparation for the full course, and is especially designed for those students who have had some practical experience in engineering.

The work is more elementary in character than the long course, embracing only the necessary mathematics, which with physics, electrical engineering, and laboratory work, gives the student sufficient theory, supplemented by practice, in the shortest possible time.

This course prepares students for practical work, such as managing or superintending lighting, power or manufacturing plants. It does not lead to a degree, but a suitable certificate will be given on completion of work.

For laboratory facilities, see Electrical Laboratory, page 22.

FRESHMAN YEAR.

	Н	ours per	week.
		1st	2d
		Term.	Term.
Algebra, (Math. 1.)		. 2	2
Geometry, Plane Trigonometry, (Math 2.)			3
General Physics, (Physics 1.)		. 5	5
Drawing, (M. E. 2c.)		. 2	2
Shop Work, (M. E. 1.)		. 4	4
English Language and Literature, (English	1.)	. 3	3

SOPHOMORE YEAR.

	Hours pe	r week.
	1st	2d
	Term.	Term.
Electrical Engineering, (E. E. 2.)	3	3
Electrical Laboratory, (E. E. 5, 6.)	4	4
Technical Drawing, $(E. E. 3.)$	2	2
(Shop Work, (M. E. 1.)	2	2
and Physical Measurements, (Physics 2.)	2	2
or Surveying and Field Practice, (C. E		
2, 3.)	4	4
Elements of Mechanism, Valve Gears and Ind	li-	
cator Practice, $(M. \dot{E}. 4, 5, 6.)$	3	3
Engine and Boiler Running, (M. E. 1c.)		
Management of Dynamos and Motors, (E. E.		2

TRADES COURSES.

These courses are of four years' duration beginning with the first preparatory class, instead of six as in the regular Engineering Courses. They are intended to enable students to acquire sufficient skill at some mechanical occupation to earn a living by it. At the same time they secure a good general education. Thus the Trades Courses will enable students to become skilled as carpenters, blacksmiths, foundrymen, or machinists. The student who educates himself while learning his trade will have a decided advantage over the one who learns it by the apprenticeship system, and will more quickly rise to a position as foreman or superintendent. The Short Engineering Course will enable students to take charge of the boilers and engines of a power plant, and, receiving a practical knowledge of electricity as well as steam, they can, in small plants, run also the dynamos and motors for light and power.

All of these courses are the same for the first and second preparatory and Freshmen classes as for the regular engineering courses. Students receive a suitable certificate on completing one of these courses.

SOPHOMORE YEAR.

H	ours per	week.
	1st	2d
	Term.	Term.
Shop Work, (M. E. 4.)	. 4	4
Drawing: Machine Design, (M. E. 7.)	. 2	2
Elements of Mechanism, Valve Gears, and Indi		
cator Practice, (M. E. 4, 5, 6.)		3
Surveying and Field Practice, (C. E. 2, 3.)		4
General Chemistry, (Chem. 3.)		5

Note I.—Candidates for admission to the Freshman Class in the College of Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University except Latin. The drawing and shop work will be made up after admission.

Note 2.—Every student is required to have the equivalent of fifteen recitations per week, in which two hours of drawing, or shop work, or laboratory work are counted as equal to one recitation. But he will not be allowed to have the equivalent of more than twenty recitations without the consent of the Faculty.

The College of Science.

FACULTY*

J. L. BUCHANAN, President, Psychology. J. F. MCNEILL, Biology, Botany, Zoology.

A. E. MENKE and W. B. BENTLEY, Chemistry and Physics.

S. E. MEEK, Geology and Zoology.

H. RANDOLPH and G. W. DROKE, Mathematics. R. H. WILLIS and IDA PACE, English and Modern Languages.

J. F. Howell, History and Pedagogics.

J. C. FUTRALL and E. F. SHANNON, Ancient Languages.

E. CHANDLER, Military Science and Tactics.

J. J. Knoch, Civil Engineering. JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

*All students in this college must consult Prof. Mc-Neill immediately after registration.

GENERAL STATEMENT.

The design of the courses of study offered by this College is, first, to afford students a liberal education with some branch of science substituted for Latin or Greek, and second, to make some one subject in science so prominent that the graduate will have an excellent foundation for a profession. By requiring every graduate to spend at least three years on one branch of science, as chemistry or botany, he is obliged to go much beyond the easy introduction, which is all that is required in the old-fashioned B. S. course, so that he has the advantage of the severe mental discipline which a difficult

study affords; and when this course is completed, he has the satisfaction of knowing that he is the possessor of special knowledge which can be turned to immediate use, if he sees fit. Graduates of this College receive the degree Bachelor of Science (B. S.).

I. COURSE WITH CHEMISTRY.

The Course in Chemistry is designed to prepare students for actual work in connection with manufactures based on chemical principles. To the credit of chemistry as an industrial science, the tenth United States census shows, in the United States alone, the existence of 1,349 chemical establishments, employing 29,500 workmen and paying annual wages to the amount of \$11,820,728.

FRESHMAN YEAR.	
	lours
	week.
Chemistry 3 (General Chemistry)	5
Physics 1 (General Physics) English 1 (English Language and Literature)	3
Mathematics 1 and 2 (Algebra, Geometry, and Trigo-	0
nometry)	
nomearg)	0
SOPHOMORE YEAR.	
Biology 1 (General Biology)	3
Chemistry 6 Mineralogy) second term	3
Chemistry 4 (Chemical Philosophy) second term	0
French 1 or Spanish 1	3
History 2 (General History)	
Physics 2 (Physical Measurements)	2
Chemistry 5b (Practical Qual. Anal.)	3
JUNIOR YEAR.	
Chamistry 7 (Organia Chamistry)	3
Chemistry 7 (Organic Chemistry)	
German 1.	
Chemistry 8 (Quantitative Analysis)	4
French 4 and 5	

SENIOR YEAR.	
per	lours week.
Chemistry 12 (Metallurgy)	3
German 4 and 5.	3
German 4 and 5. Chemistry 11 (Physical Chemistry)	3
Chemistry 9 (Advanced Quantitative Analysis)	4
Chemistry to (2100aying)	
II. COURSE WITH BOTANY.	
FRESHMAN YEAR.	
Dielogy 1 (Consum) Dielogy	0
Biology 1 (General Biology)	3 5
English 1 (English Language and Literature)	3
Mathematics 2 (Geometry and Plane Trigonometry).	
French 1	0
SOPHOMORE YEAR.	
Botany 1 (Systematic Botany)	3
Zoology 1 (General Zoology)	3
Chemistry 3 (General Chemistry) French 4 and 5	5
History 2 (General History)	3
English 2 (American Literature; Prose Style)	2
JUNIOR YEAR.	
Botany 2 (General Morphology of Plants)	3
Entomology 1 (General Entomology)	3
Geology 1 (General Geology)	3
Elective	5
SENIOR YEAR.	
	0
Botany 4 (Vegetable Histology)	
Psychology	3
Elective	5
III. COURSE WITH ENTOMOLOGY.	
FRESHMAN YEAR.	
Biology 1 (General Biology)	3
Physics 1 (General Physics)	5
English 1 (English Language and Literature)	3
French 1	

SOPHOMORE YEAR.	
	Hours per week
Botany 1 (Systematic Botany)	3
Zoology 1 (General Zoology)	3
Chemistry 3 (General Chemistry)	5
French 4 and 5. History 2 (General History).	3
English 2 (American Literature; Prose Style)	2
JUNIOR YEAR.	
T 1 2/6 1 T 1	
Entomology 2 (General Entomology) Botany 2 (General Morphology of Plants)	6
Geology 1 (General Geology)	3.
German 1	3
Elective	2
ODWIGH WILL	
SENIOR YEAR.	
Entomology 3 (Economic Entomology)	6
Psychology	3.
German 4 and 5	3
Elective	5
IV. COURSE WITH ZOOLOGY.	
FRESHMAN YEAR.	
Biology 1 (General Biology)	3
Physics 1 (General Physics) English 1 (English Language and Literature)	5
Mathematics 2 (Geometry and Plane Trigono	m-
etry)	3
French 1	
SOPHOMORE YEAR.	
SOPHOMORE LEAR.	
Botany 1 (Systematic Botany)	
Zoology 1 (General Zoology)	3
Chemistry 3 (General Chemistry)	5
French 2 and 4	3
English 2 (American Literature; Prose Style)	2
JUNIOR YEAR.	
Zoology 2 (Vertebrate Anatomy)	3
Botany 2 (General Morphology of Plants)	3
Geology 1 (General Geology)	3
Elective	

			S	E	N.	IC	R	Y	E.	A	R								Н	lours
																		p		weel
Zoology 4 and	5	 													 					6
Psychology																				
German 4 and	5.														 					3

V. COURSE WITH GEOLOGY.

Elective

FRESHMAN YEAR.

Biology 1 (
Physics 1 (English 2 (Gen	ner nal	al ish	P_{I}	hy	si	cs n	ae	ie		in	d			ite	21	·a	· t	w	re	.)						3
Mathemati	ics	2	(6	tec	m	e	bri	y	a	n	d		P	16	an	ne	2	1	T_{i}	ri	g	0	n	0	m	ı-	
French 1																											

SOPHOMORE YEAR.

Botany 1 (Systematic Botany)	
Zoology 1 (General Zoology)	
Chemistry 3 (General Chemistry) 5	
French 4 and 5 8	
History 2 (General History)	
English 2 (English Prose Style)	l

JUNIOR YEAR.

Geology 1																							
German 1													 							*	41		Ê
Engineeri	ing 4	1 (Si	ur	v	e_{i}	1i	n	g) .					*								
Elective.																						. (Č

SENIOR YEAR.

Geology 2	(P)	ac	tio	ıl	G	ee	01	0,0	73	1)																 		1	2
Geology 4	or	6 (1	$^{\rm p}a$	le	07	ite	ol	0	73	1	07	y*	I	e	t	re	9	7	α	p	h_{i}	y) .		×			-	3
German 4																													
Psycholog	у																											- 1	3
Elective					(0)							*			1	90								*					6

UNIVERSITY OF ARKANSAS LIBRARY

The College of Liberal Arts.

FACULTY.

J. L. Buchanan, President, Psychology and Ethics. R. H. Willis, English and Modern Languages.

H. RANDOLPH and G. W. DROKE, Mathematics, Astronomy, and Logic

omy, and Logic.
J. F. Howell, History and Pedagogics.

IDA PACE, English and Modern Languages.

J. C. Futrall and E. F. Shannon, Ancient Languages.
A. E. Menke and W. B. Bentley, Chemistry and Physics.
J. F. McNeill and S. E. Meek, Biology and Geology.
E. Chandler, Military Science and Tactics.

JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See pages 32-36.)

CLASSICAL COURSES FOR DEGREE OF BACHELOR OF ARTS (B. A.).

Each of these courses is designed to furnish a liberal education, to give superior mental discipline, and to prepare students to enter upon professional studies—law, medicine, journalism, etc. Each contains, besides English, not less than six yearly courses in languages, and at the same time the arrangement of elective studies allows students to give special attention to mathematics, to any branch of science, to history, or to one of the ancient or modern languages. Each class has such practical work as the subject requires, and optional studies in elocution or in other branches are allowed to the limit of twenty hours per week. The courses are merely outlined here. For details concerning the studies mentioned, consult Departments of Instruction, beginning on page 47.

I. COURSE WITH ANCIENT LANGUAGES.

FRESHMAN YEAR. Hours

	Hours
	r week.
Latin 1	. 3
Greek 1	
Mathematics 1 (Algebra)	
Mathematics I (Atgeord)	. 3
Mathematics 2 (Geometry and Plane Trigonometry)	. 0
English 1 (English Language and Literature)	. 3
Biology 1, Botany 1, or Zoology 1	. 3.
SOPHOMORE YEAR.	
Latin 2	. 3
Greek 2 English 2 (American Literature; Prose Style)	. 2
English 2 (American Literature; Frose Style)	. 3
History 2 (General History)	
History 3 (English History)	. 1
Physics 1 (General Physics)	. 5
JUNIOR YEAR.	
Latin 4	. 3
Greek 3.	
English 4 (Chaucer to Milton)	
Logic and Neurology	. 2
Political Economy	. 2
Elective	
SENIOR YEAR.	
SHILLOW AMILIA	
Latin 5, or Greek 4	. 3
Davehology and Ethios	. 3
Psychology and Ethics	
English 6 ($Philology$)	
Elective	. 9
II. COURSE WITH MODERN LANGUAGES.	
II. COURSE WITH MODERN LANGUAGES.	
WENT WALL OF MALE	
FRESHMAN YEAR.	
Latin 1	. 3
French 1	. 3
Mathematics 1 (Algebra)	. 2
Mathematics 2 (Geometry and Plane Trigonometry).	. 3
English 1 (English Language and Literature)	. 3
Biology 1, Botany 1, or Zoology 1	. 3
Diology 1, Doually 1, of Zoology 1	. 0
CODITOMORE VEAR	
SOPHOMORE YEAR.	
Latin 2	. 3
French 2 and 4, or Spanish 1	
English 2 (American Literature; Prose Style)	. 2
History 2 (General History)	. 3
History 3 (English History)	. 1
Physics 1 (General Physics)	. 5
Thysics I (General Physics)	. 0

JUNIOR YEAR. Hours per week. English 3 (Modern Poetry)..... English 4 (Chaucer to Milton)..... German 1. French 3 or Spanish 1 or 2. Logic and Neurology or Astronomy..... Political Economy..... Elective SENIOR YEAR. English 5 (Anglo-Saxon and Middle English)...... English 6 (Philology)..... German 2, 3, and 4..... History 8 and 9 (French and German History) Elective..... Students of energy and ability are advised to take Greek as an optional study. III. COURSE WITH MATHEMATICS. FRESHMAN YEAR. Mathematics 1 (Algebra)..... Mathematics 2 (Geomtery and Trigonometry)...... Latin 1..... 3 3 French 1..... English 1 (English Language and Literature)..... 3 Biology 1, Botany 1, or Zoology 1..... SOPHOMORE YEAR. Mathematics 3 and 4..... Latin 2..... French 5. English 2 (American Literature; Prose Style)..... 1 2 Physics 1 (General Physics)..... JUNIOR YEAR. Mathematics 6 (Calculus) German 1..... Logic and Astronomy..... Elective

SENIOR YEAR.	
Hour per we	
Mathematics 7 and 8	Į.
German 5	
Elective	
The required courses in languages are given above	in
full.	
IV. COURSE WITH HISTORY.	
FRESHMAN YEAR.	
Latin 1 3	
History 1 (Constitutional History)	
Mathematics 2 (Geometry and Plane Trigonometry). 3	
English 1 (English Language and Literature) 3	
Elective	
SOPHOMORE YEAR.	
Latin 2	
History 2 (General History)	
History 3 (English History)	
History 3 (English History). 1 English 2 (American Literature; Prose Style). 2 Chemistry 3 (General Chemistry). 5	
or Physics 1 (General Physics)	
Elective 3	
JUNIOR YEAR.	
Wistony A (Analant Wistons)	
$ \begin{array}{lll} \text{History 4 } (Ancient \; History) & & 2 \\ \text{Political Economy} & & 2 \\ \text{English 4 } (Chaucer \; to \; Milton) & & 2 \\ \text{Logic and Neurology} & & 2 \\ \end{array} $	
English 4 (Chaucer to Milton)	
Logic and Neurology 2 Elective 8	
Zitotivo o	
SENIOR YEAR.	
$\begin{array}{ll} \text{History 6} \left(European \; History \right) & 2 \\ \text{History 7} \left(American \; History \right) & 2 \end{array}$	2
History 7 (American History) 2	1
Psychology and Ethics. 3 English 6 (Philology). 1	
Elective	

General Physics, General Chemistry, or General Biology is required for all Seniors who have not passed in one of these branches.

Elective Studies—Any subjects mentioned in the B. A. or B. S. courses above, if not counted already; and, also the Elements of Mechanism and Electricity. Except as provided above, or by special act of the Faculty, elective studies, if counted for a degree must be pursued for at least one year each; German for two years.

All students in the College of Liberal Arts will, immediately after registration in the President's office, consult Professor Howell in Room 14. He has general supervision of their work, their examinations for admission, choice of courses, electives, etc.

The Mormal School

FACULTY.*

J. L. Buchanan, President. J. F. Howell, History and Pedagogics.

A. E. MENKE and W. B. BENTLEY, Physics and Chemistry: J. F. McNeill and S. E. Meek, Biology and Geology.

R. H. WILLIS and IDA PACE, English. E. CHANDLER, Military Science and Tactics. J. C. FUTRALL and E. F. SHANNON, Latin.

H. RANDOLPH and G. W. DROKE, Mathematics.

JESSIE L. CRAVENS, Elocution.

REQUIREMENTS FOR ADMISSION.

(See Pages 32-36.)

*Normal Students must consult Professor Willis immediately after registration.

Section 6974 of the Revised Statutes of the State is as follows: "The State Superintendent of Public Instruction shall have power to grant State certificates, which shall be valid for life, unless revoked, to any person in the State who shall pass a thorough examination in all those branches required for granting county certificates, and also in algebra and geometry, physics, rhetoric, mental philosophy, history, Latin, the Constitution of the United States. and of the State of Arkansas, natural history, and the theory and art of teaching."

It will be observed that the course includes all the branches required for a state certificate in accordance with the law. After completing the Normal Course, students may take up in the Junior Class the work of any course for which they may be prepared, and compete for the corresponding degree.

NORMAL COURSE LEADING TO THE CERTIFICATE OF LICENTIATE OF INSTUCTION (L. I.)

FRESHMAN YEAR.		
		lours
	per	week.
Botany 1 (Systematic Botany)		3
English 1		3
History 1 (Constitutional History)		2
Latin 1		3 2 3
Mathematics 1 (Algebra)		4
Mathematics 2 (Geometry and Plane Trigonometr	y).	
Pedagogics 1		2
SOPHOMORE YEAR.		
TI:-10/0 TI:-1		0
History 2 (General History)		
Latin 2		
Pedagogics 2, 3 and 4 (General Physics)		3
Physics 1 (General Physics)		5
Zoology 1 (General Zoology)		3
2001067 1 (00100100 2000099)	5.5.8	9

Graduate Courses and Degrees.

REQUIREMENTS FOR DEGREES OF C. E., M. E., OR E. E.

These courses of study are intended to more fully equip those students who have finished an undergraduate course in Engineering, for some special line of work for which their previous study has prepared them. The student will be given all possible liberty in selecting such specialties and will be limited only by certain general requirements. He will be required to make up at the beginning of the year the course which he proposes to follow and present it to the Faculty, approved by the instructors concerned. If accepted, it will be subject to change only by the Faculty. In general, it is expected that these courses shall comprise one principal subject based on the course already pursued and two secondary subjects, one or both of which should be closely related to the principal. The graduate course should amount to not less than fifteen recitation hours per week as counted in undergraduate work.

The subject of a thesis for any of the above degrees must be submitted to the Faculty for approval before the middle of the second term.

These degrees will also be given after three years to those graduates in Civil, Mechanical and Electrical Engineering who, having been in successful practice of their profession for that time, submit a satisfactory thesis on a subject approved by the Faculty.

REQUIREMENTS FOR THE MASTER'S DEGREE.

Applicants for the degree of M. A. or M. S. must have previously taken the Degree of B. A. or B. S. at this institution or at one having equal requirements. In addition they must take at the University, for a full scholastic year, not less than fifteen hours of recitations and lectures, as determined by the Faculty, and submit a satisfactory thesis.

Bachelors of Arts or of Science of this University may obtain the Master's degree without actual residence, but must complete the work mentioned above and pass satisfactory examinations upon it.

THE DEGREE, OF DOCTOR OF PHILOSOPHY (PH. D.)

- I. This degree will be conferred for distinguished attainments, as shown by examination and thesis, in any one of the five following subjects: Latin, Greek, German, French, English, and History, together with subordinate attainments in two others of the five; or for distinguished attainments in one principal and two subordinate, of the following sciences: Chemistry, Physics, Geology, Biology, Mathematics, Mechanics, Civil Engineering, and Electricity.
- 2. This degree shall be open to persons who have received the Degree of B. A. or B. S. at this institution, or at one having equal requirements. Ordinarily it will take three full years' study to complete the work required for this degree, and the last year or a longer time must be spent in resident study at this University.
- 3. A thesis of 4,000 words or more showing original research shall be required of every appli-

cant, the subject of which shall be announced and passed upon by a committee of the Faculty at least one year before the time set for the final examination, and the thesis itself must be presented to the committee two months before admission to this examination. Twenty-five copies of the approved and printed thesis shall be placed in the University Library.

4. All applicants for this degree must, by the end of the first year of the course, be sufficiently conversant with French and German to read with ease any scientific work written in these languages.

Charges.—Graduate students pay \$10 for matriculation and registration, \$10 tuition (non-residents \$5) at the beginning of each session, and \$10 in advance for the final examination. Students who fail to comply with any of these requirements, or who do not each year complete the equivalent of two terms' work in one subject, will be dropped from the rolls. Should such students desire to resume their studies, they must pay for matriculation and registration, as if beginning for the first time. The diploma fee is \$5 in advance in each case.

Graduates attending only undergraduate classes pay the same fee as undergraduates.

Non-resident students have such assistance and instruction in their studies as can be conveniently given by correspondence.

For graduate courses of study see pages 61, 64, 73, 74, 75, and 79.

University Extension.

The purpose of University Extension is to give instruction to persons who are unable to attend the University, and who wish to devote a limited portion of their time to study and culture. It is especially helpful to those who have already begun collegiate courses of study, or have had good high school courses, but persons of ordinary general information may derive much benefit in this way.

In the past, the extension work of this University has been limited to occasional lectures, given by professors usually for schools, and to the professors' work in teachers' institutes and in farmers' institutes (see School of Agriculture); in the future, the officers of the University hold themselves in readiness to give, within the State, courses of lectures at any conveniently accessible place, where such lectures may be desired.

Printed synopses for each course will be sent in advance for all persons who pledge themselves to study the course, and who register for it with the local manager. With these synopses there will be references to good literature on the subject, and other information. In connection with the lectures there will be further explanation in conferences or quizzes; and all persons who have attended the lectures, have the privilege of being examined upon their work and of having their credits entered on the University records. Persons who have passed satisfactory examinations upon twelve extension courses of six

lectures each, will receive a University extension certificate.

For a course of lectures no charge will be made beyond the expenses of the lecturer. This charge may be met by a small fee, paid in advance to the local manager, for each person attending the lectures.

Correspondence on the subject should be addressed to the President of the University.

SINGLE LECTURES FOR ARKANSAS COMMUNITIES.

Wishing to make the University a direct benefit to the largest possible number of the citizens of Arkansas, the Faculty offer a number of single lectures free to schools in the State, to societies of a religious, scientific, or literary character, or to communities seeking general culture. In all cases the lecturer's expenses must be paid; but no further charge is made by the University, if the lecture is free to the public, or if the admission fee is merely a sum intended to cover the lecturer's expenses.

AIDS TO PRIVATE STUDY.

The University will do all in its power to aid and stimulate culture in every form; and references, advice, and any other help that may be practicable, will be cheerfully given to citizens who wish to follow courses of reading, either special or general, or to make scientific investigations, or to acquire useful information of any kind.

TEACHERS' NON-RESIDENT COURSES.

The University offers special opportunities to all teachers in Arkansas. It will admit them to its

regular examinations for admission to the Freshman class, or will send the examination questions to county examiners, who will submit them to teachers under usual rules and return answers to the University. Teachers who pass the required entrance examinations, may then matriculate and enter upon non-resident courses of study under direction of the University professors; and upon completion of one term's work in any branch, they will be examined upon said work and credited with it, if it comes up to the University standard.

After finishing three-fourths of the course for a bachelor's degree, such teacher-students may graduate by completing the course as regular resident students.

Non-resident study is pursued under disadvantages, and none but energetic and methodical persons, who are willing to practice much self-denial, can succeed in such work. Such courses of study are in many respects less thorough than study under regular instruction at the University. Yet thousands of persons who cannot attend college regularly, are thus educating themselves; and the self-reliant habits of study and investigation acquired by successful work of this kind are of untold value.

Teachers accepting this offer must obtain not less than two credits (two subjects passed for one term, or one subject for two terms), each year; else their names will be dropped from the rolls. Teachers whose vacation occurs during the session of the University, may supplement their non-resident study by attending the regular classes.

SCHEDULE OF COLLEGIATE RECITATIONS.

Figures to the left show the term during which the subject is studied; those to the right show the number of the course.

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Preparatory Department.

INSTRUCTORS.

B. J. Dunn, Principal, Instructor in Mathematics.
G. A. Cole, Instructor in Mathematics.
MARY E. WASHINGTON, Instructor in English.
NAOMI J. WILLIAMS, Instructor in Latin and History.
MRS. E. W. COLE, Instructor in History and Mathematics.

MARY DAVIS, Instructor in English.

JESSIE L. CRAVENS, Instructor in Elocution.

W. B. BENTLEY, Acting Instructor in Chemistry.

G. W. DROKE, Acting Instructor in Mathematics.

S. E. MEEK, Acting Instructor in Physiology.

W. N. GLADSON, Acting Instructor in Drawing.

W. F. BATES, Instructor in Agriculture.

ANNA H. EDMISTON, Instructor in Instrumental Music.

MRS. A. D. DAVIS, Instructor in Vocal Music.

F. P. NICHOLAS, Instructor in Woodworking.

G. W. BASHAW, Instructor in Foundry and Forging.

MACK MARTIN, Assistant in Mathematics.

C. J. ELD, Assistant in English.

GEORGE VAUGHAN, Assistant in Latin.

The Preparatory Department is intended, first, to prepare students for any of the courses of study taught in the University; second, to furnish to those who cannot take a more extended course, as good a general education as the limited time will permit; third, to prepare teachers for the public grammar schools of the state. To secure these ends, three courses of study are offered.

REQUIREMENTS FOR ADMISSION.

1. Arithmetic.—Students are examined in the whole of Wentworth's Grammar School Arithmetic, and an accurate knowledge of all this is rigidly required. Teachers preparing pupils for admission

should require them to learn principles and definitions accurately and to analyze every example capable of analysis, or should give them thorough drill in mental arithmetic.

- 2. English Grammar.—Maxwell's Elementary Grammar.
- 3. Geography.—The whole of some complete manual of Geography, such as Maury's or Frye's.
- 4. Reading, Spelling and Writing.—Proficiency in these subjects is tested by the examination in Grammar.

Note.—Candidates for second year, general course, will be examined in Arithmetic, Algebra to fractional equations, Maxwell's Advanced Grammar, History of the United States, Descriptive Geography, and Latin (Collar and Daniell).

Agricultural, scientific, and engineering students are not examined in Latin, but in Physical Geography and in Bookkeeping instead. Students entering after the session has begun will be examined also in the work passed over by their classes.

ORDER OF EXAMINATIONS FOR ADMISSION.

Wednesday, Sept. 16, 9 a. m.: Registration of students; 1-4 p. m.: Algebra, Geography.

Thursday, Sept. 17, 9-12 m.: Arithmetic; 1-4 p. m.: Latin.

Friday, Sept. 18, 9-11 a.m.: English Grammar; 11-12 m.: English Composition; 1-4 p. m.: United States. History, General History.

DETAILED WORK OF THE COURSES.

FIRST YEAR.

Mathematics, 5.—Wentworth's High School Arithmetic, page 120 to the end; Wentworth's Algebra to page 130.

English, 4.—Maxwell's Advanced Grammar; Lamb's Tales of Shakespeare; four original essays per term, corrected and copied; Guerber's Myths of Greece and Rome.

Parallel Reading.—Cooper's Spy, and Red Rover; Longfellow's Evangeline; Whittier's Lexington and Yorktown; Shakspeare's Comedy of Errors; lives of the above authors.

Latin, 4.—Collar and Daniell's Beginner's Latin.

History, 3.—Chambers's United States History and Hempstead's History of Arkansas.

Physical Geography, 3.—Maury's Physical Geography.

Bookkeeping.-Messervey's Bookkeeping.

Woodworking, 8.—Principles of carpentry and joinery; wood turning; pattern making; cabinet work. Sickel's Exercises in Woodworking.

Elementary Agriculture.—The reasons for the various farm operations, and the conditions under which they can be most successfully accomplished form the subject matter of the instruction.

Freehand Drawing, 2.—Practice work; outline drawing from models and machine parts; plans, elevations, sections, dimensions, etc.

SECOND YEAR.

Mathematics, 5.— Wentworth's Algebra, pages 130 to 260. Wentworth's Geometry, 4 books.

English, 4.—Raub's Rhetoric; five essays per term corrected and copied; Shakespeare's Julius Caesar and Tempest, and Scott's Talisman.

Parallel Reading: Eggleston's Pocahontas; Cooke's Surrey of Eagle's Nest; Franklin's Autobiography; Longfellow's Hiawatha; Campbell's Gertrude of Wyoming

Latin, 4.—Four books of Caesar (Harper and Tolman) or an equivalent; Gildersleeve's Grammar.

History, 3.—Barnes's General History.

Physiology, 2—Martin's Human Body, Briefer Course, with experiments.

Chemistry, twice a week.—William's Introduction to Chemical Science; lectures and written work.

Civil Government, 1.—Peterman's Civil Government, and Johnson's History of American Politics.

Founding, 4.—Moulding; melting and pouring brass and iron; management of cupola. Bollard's Iron Founding; lectures and practice.

Elementary Dairy Husbandry.—The primary principles of dairy work are taught by class-room instruction, accompanied with daily practical work in the dairy.

Forging, 4.—Management of fire; drawing; welding; riveting; tempering. Lectures and practice.

Mechanical Drawing, 2.—Drawings of machine parts; lettering; line shading, etc.

AGRICULTURAL COURSE.

This course prepares students for the School of Agriculture.

FIRST YEAR.			SECOND YEAR.
		ours	Hours
1	per	week,	per week,
Mathematics		5	Mathematics 5
English		4	English 4
History		3	History 3
Physical Geography		3	Chemistry 2
Agriculture		2	Physiology 2
Farm or Shop Work .		4	Agriculture 2
THE RESERVE OF THE PARTY OF THE			Farm or Shop Work 4

ENGINEERING AND MECHANIC ARTS COURSE.

FIRST YEAR.		SECOND YEAR.
	ours	Hours
per	week.	per week.
Mathematics	5	Mathematics 5
English	4	English 4
History	3	History 3
Bookkeeping		Civil Government 1
Drawing	1	Physiology 2
Woodworking	4	Drawing 1
		Founding 2
		Forging 2

Note.—Candidates for admission to the Freshman Class in the College of Mechanic Arts and Engineering will be examined in all the subjects required for admission to the University, except Latin.

GENERAL COURSE.

This course prepares students for the College of Liberal Arts or the College of Science or for the Normal School. It gives a limited general education to students who cannot take a collegiate education.

FIRST YEAR.		SECOND YEAR.
	Hours	Hours
	per week.	per week.
Mathematics	5	English 4
English	4	History 3
History		Physiology 2
Latin		Latin 4
		Mathematics 5

Note.—If a student is preparing to enter the College of Science, he may substitute Bookkeeping and Physical Geography for first Latin, and Chemistry and Agriculture (or Civil Government) for second Latin.

Special courses of study are not allowed in the Preparatory Department, but students known to be in poor health or having physical defects which interfere with their studies, are sometimes permitted by the Faculty to defer one or more subjects of study and extend the course over a longer period.

Students who have at any time been enrolled in the Preparatory Department, must complete all the studies in one of its courses before dropping preparatory work; and studies in lower classes have precedence over higher ones. A student in the Preparatory Department is a member of the highest class with which he has as many as eight recitations per week.

School of Medicine.

Little Rock, Arkansas.

PRELIMINARY FALL COURSE.

E. Bentley, M. D., Surgical Pathology. E. E. Moss, A. M., L. L. B., Legal Medicine.

L. P. Gibson, Minor Surgery and Bandaging. C. Watkins, M. D., E. R. Dibrell, M. D., Physical Diagnosis.

L. R. Stark, M. D. Diseases of Children. S. H. Kempner, M. D., Urinary Analysis, Microscopy J. J. McAlmont, M. D., Hygiene.
F. Vinsonhaler, M. D., Diseases of Throat.
W. H. Miller, M. D., Emergencies.

F. H. CLARKE, Local Forecast Official U. S. Weather Bureau, Meteorology.

Note-The names of the entire Medical Faculty are given on pages 8 and 9.

The Regular Winter Course of lectures will begin on Thursday, November 2, 1896, and continue twenty-four weeks.

Lectures will be delivered daily during the six days of each week.

The matriculation book will be opened on and after September 1, to students desiring to matriculate early and secure choice of seats.

The Preliminary Fall Course, which is given gratis to all students, will begin on Wednesday, October 1, 1896, and continue to Thursday, November 2, 1896, when the regular winter session opens-

In making this annual announcement the Faculty feel great satisfaction in referring to the continued success and prosperity of the Medical School. The cordial indorsement of the Arkansas State Medical Society and the generous influence of the medical profession throughout the State are cordially appreciated and accepted by the Faculty, as an encouragement to them to continue the arduous labors they have so long and so zealously maintained.

ASSOCIATION OF AMERICAN MEDICAL COLLEGES.

At the meeting of the Association of American Medical Colleges at Baltimore, in May, 1895, it was determined to extend the course of study to four years, and it was resolved with great unanimity to require of all new matriculates, beginning with the school year of 1895-'96, as one of the requirements for graduation, that they should attend *four* courses of lectures of not less than six months each. The Medical Department of the Arkansas Industrial University, being a member of the College Association, adopts and will carry out these requirements, beginning at once with the session of 1895-'96.

CURRICULUM.

First Year.—Anatomy, Practical Anatomy, Physiology, Chemistry, Physics, Histology and Medical Ethics.

Second Year. Anatomy, Practical Anatomy, Physiology, Chemistry, Materia Medica, Pathology, Obstetrics.

Third Year.—Materia Medica and Therapeutics, Toxicology, Obstetrics and Diseases of Children, Physical Diagnosis, Diseases of the Eye and Ear; Practice of Medicine, Surgery.

Fourth Year.—Review of all branches—Practice of Medicine, Surgery, Dermatology, Gynecology, Bacteriology, Urinology, Venereal Diseases, Diseases of the Nervous System, Medical Jurisprudence.

LOCATION.

The city of Little Rock is very happily situated, being central in the State and a goodly distance from any other large city. Railroads enter from every direction, making it an easily accessible point.

It has a population of upwards of 40,000 people, and has always been classed as one of the healthiest cities west of the Mississippi River. Few cities can boast of better public schools, colleges, and universities than Little Rock. All the eleemosynary institions in the State are located here. There are the Blind, Deaf-Mute, and Insane Asylums.

COLLEGE BUILDING.

The new structure is an imposing edifice, three stories in height, constructed of brick, and admirably arranged for the convenience of both students and instructors.

It has a large lecture hall, fine amphitheater with chairs, a library, a reading room, a museum, and several private dissecting rooms, all well lighted and ventilated. In fact, it is designed to be a model medical college building. It is situated on Second and Sherman streets.

HOSPITALS.

The Little Rock Infirmary, a new institution designed solely for the treatment of acute diseases, has a capacity of fifty beds. This hospital, splendidly equipped and furnished with modern conveniences and improvements, is in the very best sanitary condition, and under the supervision and management of trained nurses—Sisters of Charity.

The Pulaski County Hospital has just been erected at a cost of some \$30,000. It is a handsome brick structure, well arranged, complete in all its equipments, and has a capacity of 200 beds. It is under the general direction of the Judge of Pulaski County, and is also benevolent in character. In this institution the chronic diseases and injuries of long standing will generally predominate.

Sufferers from railway accidents, marine patients, and the sick and injured from the city, county, and State, find in these hospitals shelter, food, raiment, and that Christian attention so cheering and comforting in sickness and distress.

Their inmates embrace all classes and conditions of unfortunates—white, colored, male, female, adults, and children—and with them are found almost every character and form of sickness, except contagious. diseases, which are otherwise provided for.

THE ISAAC FOLSOM CLINIC.

Every student of this department is required to attend the Isaac Folsom Clinic, and each candidate for graduation must pass a thorough examination on

clinical instruction herein received, and this fact will be specially mentioned on the face of his diploma.

The instruction of this clinic is eminently practical in every particular, and is attended by a very large number of outdoor patients from the city and surrounding country. It embraces a wide range of troubles of various forms, character and condition, in fact the larger portion of the ills that humanity has to contend with, both medical and surgical. Hence the advantages of this daily Clinic, for those who desire ocular demonstrations, can hardly be estimated.

METHODS OF TEACHING.

Instruction in this department will be given by didactic and clinical lectures, by practical work in the dissecting room, and in the chemical and physiological laboratories, and by daily quizzes upon the subject of preceding lectures.

When the subject will admit of it, each branch will be so illustrated by means of diagrams, charts, models, and instruments, as to address the understanding of the student through the medium of sight as well as hearing.

THE EXPENSES OF LIVING, ETC.

The expenses of living in the city of Little Rock will, of course, vary according to the views and habits of students. Good board, at the present time, including lodging, fuel and lights, may be had, at a convenient distance from the College, at from \$4 to \$6 per week, and from \$13 to \$18 per month.

The list of parties desiring to board medical students will be found at the College building.

Persons desiring further information are requested to address the Secretary of the Faculty.

REQUIREMENTS FOR ADMISSION.

Applicants must be eighteen years of age and must present a certificate of good moral character and a diploma of graduation from a good literary and scientific college or high school, or a first-class grade teacher's certificate. Lacking this, they must pass a thorough examination in the branches of a good English education, including mathematics, English composition, and elementary physics or natural philosophy. This is in conformity with Article III, American Medical College Association.

TERMS.

The fee for a full course of lectures will be: General tickets, \$50; Maltriculation ticket (paid but once), \$5; Demonstrator's ticket for each course, \$5; Hospital ticket, each course, \$3; graduation fee, \$25.

No variation is made, under any circumstances, from the established fees of the College, they having been placed originally at the very lowest figure commensurate with the interests of both student and College.

For more specific information and catalogue apply to

E. R. Dibrel, M. D.,

Secretary of Faculty,

Little Rock, Ark.

Note—Alumni are requested to inform the Secretary of their present post office address, and of any change of location, in order that they may have the annual catalogue forwarded them regularly.

Law Department.

Litlle Rock, Ark.

F. M. GOAR, Dean.

G. B. Rose,
J. Fletcher,
J. C. Marshall,
J. H. Carmichael,

The Law course is arranged for two years, divided each into two terms. Fall term commences October 1, and closes January 31. Spring term commences February 1, and closes June 1.

Course of Instruction.—The design of this school is to afford such training in the fundamental principles of the law, as will constitute the best preparation for the practice of the profession anywhere in the United States, and especially in the State of Arkansas. With this view the course of study comprises the following subjects:

Junior Year.—First Term—Contracts, Lawson. Agency, Mecham, Lectures. Partnership, Parsons, Lectures. Commercial Paper, Daniel. Domestic Relations, Schouler, Lectures.

Second Term.—Criminal Law, Harris. Evidence, Vol. I., Greenleaf. Code Pleading, Bliss. Judgments, Freeman, Lectures. Leading Cases. Moot Courts.

Senior Year.—First Term—Law of Private Corporations, Cook. Municipal Corporations, Lectures. Bailments, Schouler. Insurance, Lectures. Torts, Cooley. Moot Courts.

Second Term—Real Property, Tiedeman; Equity Jurisprudence, Bispham; Equity Pleading, Langdell, Lectures; Constitutional Limitations, Cooley; Conflict of Laws, Lectures; Fraud and Fraudulent Conveyances, Lectures; leading cases; moot courts.

The First Term of the Junior year, it will be observed, comprises subjects specially suited for a Commercial course. Those who do not contemplate the law as a profession, but propose embarking in some branch of commerce, will find this Term replete with needful information for a businees life. Contracts, Agency, Partnership, Commercial Law, and Domestic Relations, (including those of Husband and Wife, Parent and Child, Guardian and Ward, and Master and Servant), are subjects which arise daily in the experience of a business man. We commend this course to all those who have taken or contemplate taking a Commercial Course.

Students will be matriculated at any time during either term. But it is very important that, if possible, they be present at the beginning of the session, as two full years are requisite for the thorough mastery of the prescribed course. "He who is not a good lawyer when he comes to the bar, will seldom be one afterwards," is a saying full of truth.

Thought as well as reading is necessary to the proper understanding of our system of jurisprudence. No man can hope to be a great lawyer by the cramming process. While students are advised not to attempt to complete the full course in a single year, yet if one chooses to make the effort, and has

acquired sufficient knowledge of the law from previous reading, he will be admitted to the graduating examination, and if he attains the standard required, will be entitled to his degree. Every candidate for the honor degrees will be required to attend the full term of two years.

EXPENSES.

Tuition, \$50 per session, payable \$10 in advance, and \$5 per month thereafter during the session. Books will cost from \$20 to \$30 per year. Board from \$15 to \$20 per month; by the club system, where the students do their own work, from \$6 to \$10 per month.

Cheap lodgings may be obtained by consulting the Dean of the Faculty before the opening of the session, and the cost of living need not be greater in Little Rock than elsewhere in the State.

Many reasons may be given why young men contemplating the practice of law in Arkansas should patronize their own law school. First, in the application of the elementary principles of law in the practice, the reference books must be in the main to the laws of the State where the law school is located, as found in the Constitution, Statutes, and Supreme Court Reports of the State. Second, emulation and class organization will do much for the law student.

The old way of serving a term in a private law office of a senior at the bar is fast yielding to more modern and better methods.

"The time has gone by when an eminent lawyer in full practice can take a class of students into his office and become their teacher. Once that was practicable, but now it is not. The consequence is that law schools are now a necessity."—Chief Justice Waite.

Again, the associations and friendships formed with representative young men throughout the State are invaluable in many respects to the practitioner.

EXAMINATIONS AND DEGREES.

Written examinations are held each term in the presence of a member of the Faculty. Questions are submitted at the time of the examination, and the value of the answers carefully estimated. The Degree of Bachelor of Laws is conferred by the Board of Trustees on recommendation of the Faculty on the members of the Senior Class whose examinations show a satisfactory acquaintance with the prescribed Course. Candidates for a degree are required to file with the Faculty an essay or thesis on some topic connected with their studies.

MOOT COURTS.

Moot courts are held from time to time during the term, in which students discuss cases previously assigned them for that purpose by the Professor. These courts are presided over by the professor, who, at the conclusion, reviews the arguments and gives his decision upon the points involved. The effort here is to make not merely theoretical but practical lawyers; not to teach principles merely, but how to apply them. To this end the Moot Court is made the forum for the discussion of such

practical questions as most frequently arise in a professional career at the bar; and the attention of the Faculty is directed not less to the application of the points discussed to actual cases, than to the elucidation of the legal questions. An opportunity is afforded all the Senior students to participate in this court, and all Junior students of the second term.

Moot Courts are conducted on the theory that certain facts are true, and that the only subject open to discussion is the rule of law to be applied to them. The student, having obtained from the Faculty a statement of facts, is required to prepare pleadings, and draw up a brief in which the rules of law are stated under appropriate divisions and sustained by authorities which he proposes to rely upon in his oral argument.

The pleadings are submitted to the Professor. He calls the student's attention to such errors as may exist, and gives such other practical information as he may deem advisable.

Professional Ethics.—While endeavoring to impart legal knowledge, the fact will not be lost sight of that a high moral standing is a most important requisite to a successful and honorable career, and no pains will be spared in impressing this fact upon students and inculcating a high tone of professional ethics and action.

The law department at Little Rock is exceedingly fortunate in its surroundings. Students have free access to the Supreme Court Library of about 20,000 volumes. Every court known to our system of jurisprudence, both State and Federal, is held in Little Rock during each session of the school except

two (Supreme Court of U. S., and Court of Claims at Washington). Besides there is a large and eminent bar to draw our lecturers from, which has manifested great interest in the school from the first.

For any additional information address

F. M. Goar, Little Rock, Ark.

The Branch Mormal College.

GENERAL STATEMENT.

The Branch Normal College is a department of the Arkansas Industrial University, established pursuant to an act of the General Assembly of the State of Arkansas, approved April 25, 1873, and has been in operation since September 27, 1875. Its primary object is the training of teachers for efficient service in the colored public schools of the state-the law referred to having been enacted with special reference to the "convenience of the poorer classes." For the purpose of carrying out the intent of the law, tuition is made free to all appointees; the only requirements for admission being suitable age and qualification, and appointment from one of the County Judges, and the payment of the entrance fee of \$5. Other students pay, in addition to the above, \$1.00 per month in advance.

LOCATION, ETC.

The school property consists of a beautiful tract of twenty acres of ground, in the suburbs of Pine Bluff, Jefferson County, Arkansas, and a few rods from the junction of the Little Rock, Mississippi River & Texas and "Paramore" Railroads. The school building, completed in 1881, and occupied January 30, 1882, is one of the handsomest educational edifices in the state, as well as one of the best, being warm and comfortable, well lighted and ventilated. It contains one large assembly room, four recitation rooms, and cloak room for males and fe-

males. The building is of brick, with slate roof and trimmings of Alabama granite, and cost, with improvements and furniture, \$12,000. The furniture and other equipments are of the best modern style.

The Dormitory, a handsome brick building of seventeen rooms, and the Mechanical Department building, are upon the same grounds.

The Normal course of study is intended to be a full equivalent to a regular college course up to and including the Sophomore year; the only difference being the substitution of Pedagogy for Greek and the higher mathematical branches. The college course adds to this the usual studies of the last two years. Twelve classes have graduated from the Institution, and the members are now occupying prominent positions in life. The number of students for the year 1894-'95 was about 200.

THE LIBRARY.

The Library consists of over 3,000 volumes, embracing many valuable reference books, such as Appleton's Cyclopædia, Lippincott's Gazetteer, etc. It also has a fine collection of the works of standard authors, Shakespeare, Milton, Irving, Cooper, Dickens, Longfellow, Carlyle, Tennyson. The library of the principal, embracing many valuable text and reference books, including the Encyclopædia Britannica, is also accessible to students. A small collection of minerals each of which is a typical specimen, and none of which are duplicates, has been procured. During the past year a valuable supply of apparatus has been added to the educational resources of the institution, consisting of an air pump, electrical ma-

chine, standard barometer, batteries, French microscope, spectroscope, sets of weights and measures, common and metric, etc. The outfit of the Mechanical Department is not surpassed, if equalled in quality, by any in the State.

The Reading Room has been fitted up in elegant style and supplied with quite a number of valuable newspapers and periodicals, many of which are furnished by their publishers. Among those on file are the Freeman, Indianapolis; Western Appeal, Minneapolis; Gazette, Huntsville; The Gazette, Little Rock: Globe-Democrat and Republic, St Louis; The Tyler, Detroit, Mich.; Popular Educator, Boston; Lippincott's Educational Quarterly; American Student, New York; Board of Education, Chicago; School Journal, New York; Weekly Echo, Pine Bluff; National Baptist, Philadelphia; Southern Review, Helena: American Machinist, Scientific American, Forum, Farm, Florist, Nation, publications of American Statistical Association, scientific publications of the State of Arkansas and of the United States, etc.

DORMITORY FOR GIRLS, AND BOARDING HOUSE.

The Dormitory for female students is under the supervision of the Principal and his wife. It is a handsome brick structure sufficient for the accommodation of thirty or forty students. Board bills are payable monthly in advance, and no deduction is made for loss of time less than one week. Girls staying in the Dormitory are required to keep their own rooms and the halls clean, and to assist in turn, in the dining room and kitchen. They are expected to furnish their own bed linen, and are held respon-

sible for all damage to furniture in their rooms. They are not to visit each other's rooms, except by invitation from the occupant, and two are expected to occupy one room. They are not allowed to change rooms, nor to visit in town except by permission. The charge for board, fuel, and light thus far has been \$8 per month, in advance, and, if possible, that price will be continued.

MECHANICAL DEPARTMENT.

The operations of this department were begun under the superintendence of Prof. C. V. Kerr, Superintendent of Mechanic Arts at Fayetteville, assisted by Prof. W. S. Harris, a graduate of the Miller Manual Labor School of Virginia. The equipment is as follows:

The shop building was completed in February, 1892. It is of brick and covers a plat of ground 70x70, comprising a woodshop 35x35, a foundry 25x25, a blacksmith shop 25x25 and a machine shop 35x25. A boiler room 20x25 and a court 35x20 occupy the remaining space.

Wood Shop.—The equipment already secured includes 12 benches with complete sets of carpenters' tools, a double-circular sawing machine, a scroll saw, a buzz planer, and six wood turning lathes.

Foundry.—A Colliau cupola capable of melting I ½ tons of iron per hour is in position, and the remainder of the outfit will be added shortly. It includes ladles, moulders' tools, flasks, core oven, rumble, etc.

Forge Shop.—Twelve Buffalo forges are in position, the blast being supplied by a blower, and the smoke drawn off by a large exhaust fan. Besides the usual outflit of anvils, hammers, tongs, etc., there is a Buffalo punch shear and bar cutter capable of cutting off 1-inch bar iron ½x3-inch strap iron, or of punching a ¾s-inch hole in¾s-inch iron.

Machine Shop.—Among the tools already ordered and partly in place, are a 15-inch crank shaper, 24x24x6 feet planer, 20-inch drill press, 15-inchx5 feet turret lathe, 18x6 inch engine lathe, 14 inch by 6 feet engine lathe, 12 inch by 50 feet hand lathe. universal milling machine, cutter and reamer grinder, twist drill grinder, power grindstone, dynamo, etc.

Heating and Power Plant.—Two vertical engines of 12-horse power each are in position, also two 30-horse tubular boilers. The piping for feed water is so arranged that the water passes from either pump or injector through a feed water heater to the boilers; and the exhaust piping is so arranged that the exhaust steam from the engines can be used either to heat the feed water or to heat the shops.

Water Supply.—In the court of the shop building a 4-inch Cook tubular well has been put down, which will furnish 1000 gallons of water per hour. A Cook pump delivers the water to a tank 30 feet above ground, holding 8000 gallons.

Sanitary Provisions.—The shops are thoroughly well lighted, ventilated, heated and drained. Sewer connection is made to all buildings, and the abundant water supply is used to insure cleanliness in wash room and water closet.

The courses in the department are as follows, viz:

- (a.) A course in general shop work extending over three years, followed by a fourth year's work in one of the shops selected by the student. The design is to enable a young man to choose his trade intelligently and to acquire a sound basis for it.
- (b.) A three years' course in general shop work followed by a fourth years' work in the management of boilers, engines and heating systems. This course is intended to train young men for the practical work of foremen or engineers.
- (c.) A course in general shop work extending over three years, together with class-room work in the theory and practice of teaching, followed by a fourth years' work in handling classes in the shops and in laying out series of practical exercises.

For fuller information respecting this and other departments reference is made to the catalogue of Branch normal college.

GENERAL EXERCISES.

In addition to the regular class exercises prescribed in the course of study, there are regular lessons in vocal music, which are open to all the students. The general exercises also include a review of a Sabbath-school lesson, review of the events of the week, Calisthenics, Music and Drawing. Music upon instruments, the Organ, Piano, Flute, Guitar, etc., is extra, but very reasonable in price. There are two Literary Societies, the Junior and Senior, which hold weekly meetings and afford excellent opportunities for practice in oratory, debate, and composition. It is required that every

student shall become a member and attend the meetings of one of the societies.

The length of the vacation allows the advanced students an opportunity to engage in teaching, and a large proportion of their number have done so during the last five years. In nearly all cases they have given satisfaction and conduct their schools with a fair degree of success. The Normal students have also assisted in the work of the institution itself as a part of their training.

It will be a great advantage to the institution if the various County Judges will take a special interest in seeing that their counties are represented. The proper blanks for making appointments will be furnished, together with all necessary information, on application to the principal,

J. C. CORBIN, A. M.
Pine Bluff, Ark.

Register of Students.

The session which began March 5, '95, ended July 17, '95, the time of vacation having been changed from winter to summer. For this short session no catalogue was used. The following Register, therefore, includes the names of all students enrolled during this session, and during the full session of 1895-'96. The names of those in attendance the first session, but not the last, are distinguished by an asterisk (*).

Abreviations:—Agrl., Agriculture; B. A., Bachelor of Arts; B. S., Bachelor of Science; C. E., Civil Engineering; E. E., Electrical Engineering; M. E., Mechanical Engineering; M. A., Master of Arts; M. S., Master of Science; S. E. E., Short Course in Electrical Engineering; Phar., Pharmacy.

GRADUATE STUDENTS.

NAME. COURSE POST OFFICE. COUNTY.

Allen, Edna, E. A... M. A. Farmington. Washington.
*Bell, J. C., B. A... M. A. Pontotoc... Mississippi.
Braly, Amanda, B. S. M. S. Fayetteville. Washington.
Braly, Etta, B. S... M. S. Fayetteville. Washington.
Davies, Lila, B. A. M. A. Fayetteville. Washington.
*Dyer, Malvina, B. A. M. A. Prairie Grove. Washington.
Earl, Clara, B. A... M. A. Fayetteville. Washington.
Eld, C. J., B. C. E. C. E. Bentonville. Washington.
Hedrick, Ira G., B C.E. C. E. Kansas City. Missouri.
Holcombe, Cener, B. A. M. A. Fayetteville. Washington.
Lipsey, D. B., B. S. M. S. Lonoke. Lonoke.
Remy, Mollie, B. A. M. A. Mulberry. Franklin.
Simonds, Alice, B. S. M. S. Fayetteville. Washington.
Williams, Jennie, B. A. M. A. Fayetteville. Washington.

NOTE—The names of students in the Medical and Law Departments at Little Rock and of the Branch Normal College at Pine Bluff are not included in this register, but are published in the special catalogues of these Departments.

SENIORS.

NAME.	COURSE POST OFFICE. COUN	NTY.
Allen, Edna	B. A Farmington. Washin	ogton.
Barnett, C. P	E. E Fayetteville. Washin	ogton.
Barr. Ida	B. S Fayetteville. Washin	gton.
Beattie, Mary	B. A Little Rock. Pulask	i.
Boyd, W. E	B. A Cooper Texas.	
Braly, Amanda	B. S Fayetteville. Washii	agton.
Braly, Etta	B. S Fayetteville. Washii	gton.
Brixey, A. M	B. A Rogers Benton	
Davies, Clyde	B. A Fayetteville Washin	ngton.
Davies, Lila	B. A Fayetteville. Washii	agton.
Drees, C. J	E. E Little Rock Pulask	i.
Earl, Clara	B. A Fayetteville. Washir	ngton.
Eld, C. J	C. E Bentonville Benton	
Lipsey, D. B	B. S Lonoke Lonoke	
Martineau, J. E	B. A Lonoke Lonoke	
*Morley, S. L	B. S Fort Smith. Sebasti	an.
Myar, A. J	C. E Little Rock Pulaski	1.
Redus, J. L	B. A Lead Hill Boone.	
Remy, Mollie	B. A Mulberry Frankl	in.
*Russell, Chester	B. A Russellville Pope.	
Simonds, Alice	B. S Fayetteville. Washir	gton.
Vaughan, George	B. A Locksburg Sevier.	and the same
Vaulx, Kate	B. A Fayetteville. Washin	ngton.
Williams, Jennie	B. A Fayetteville. Washin	igton.
Wood, Norma	B. A Van Buren Crawlo	ra.
Wood, Norma	B. A Van Buren Crawfo	rd.

JUNIORS.

A TYPE TY	D A Manualla Calmudia
Askew, W. H	B. A Magnolia Columbia,
Batten, T. H	B. S Eureka Spgs. Carroll.
Braly, E. K	M. E Fayetteville, Washington,
Campbell, J. L	B. A Greenwood Sebastian,
Crozier, A. B	E. E Fayetteville. Washington,
Davis, J. H	E. E Forest City. St. Francis.
*Duncan, C	B. S Fayetteville. Washington,
*Earle, F. P	B. S Boonsboro Washington,
*Godfrey, J. H	B. A Pine Bluff Jefferson.
Hardin, Nina	B. A Fayetteville. Washington,
Howell, Willey	B. S Fayetteville. Washington.
*Hust, J. H	B. A Bentonville . Benton.
Leverett, Rose	B. A Fayetteville. Washington.
McNeill, Dane	M. E Fayetteville. Washington.
Medearis, R. S	B. A Cincinnati Washington.
Miller, Daisy	B. A Fort Smith. Sebastian.
*Mobberly, E. E	E. E Longview Texas.
Moore, J. L	M. E Cincinnati Washington,
Morrow, D. C	E. E Fayetteville. Washington.

JUNIORS (continued).

NAME. COU	RSE POST OFFICE. COUNTY.
Patterson, Kate. B. A. Patterson, Daisy. B. A. Pruett, W. E. C. F. Rodman, E. L. B. A. Skelton, J. E. B. S.	Altus Franklin. S Fayetteville. Washington. Fayetteville. Washington.

SOPHOMORES.

Askew G H	B. A Magnolia Columbia.
Avres W. E.	C. E. Osceola. Mississippi. B. A. Pine Bluff Jefferson. B. A. Hindsville. Madison. Nor. Ft. Smith Sebastian. B. A. Center Ridge Conway. B. A. El Dorado Union.
Rell M L	B A Pine Bluff Lefferson
Bevers A W	B A Hindsville Madison
*Boles Ing M	Nor Et Smith Schootien
Champage W T	P A Contar Pidge Conwey
*Chow W D	B. A. El Dorado Union.
CHC 11 . 11 . D	B. A. Huntsville . Madison.
Dungen Floorer	D. A. Huntsville , Madison,
Eld Amende	B. A. Fayetteville. Washington.
	B. A. Bentonville Benton.
FISHDACK, W. M	S. E. E. Ft. Smith Sebastian.
Ferguson, Augusta	B. A. Fayetteville. Washington.
	B. A., Texarkana, Texas.
	. B. A. Jonesboro Craighead.
Gates, H. W	B. S Fayetteville . Washington.
	. B. A. Fayetteville. Washington.
*Guilliams, J. M	B. S Farmington. Washington.
Gunter, Gertrude	. B. S Fayetteville. Washington.
Hardin, Lena	. B. A Fayetteville. Washington.
*Hill, S. B	. B. A Franklin Izard.
Hinkle, C. G	. B. A. Batesville Independenc
Holcombe, Jo Belle	. B. A., Fayetteville, Washington.
*Hopkins, J. F	. B. A. Brightwater, Benton.
Howard, J. R	. E. E Malvern Hot Springs.
Howell, Carrie	. B. A. Fayetteville. Washington.
Hunt, Nellie	. B. S Fayetteville. Washington.
*Johnson, D. F	. B. A., Cauthron Scott.
Jones, R. C	. B. A., Three Creeks Union,
Jones, R. A	. B. S Three Creeks Union.
McDaniel, A. J	. C. E McDaniel St. Francis.
	. S. E. E. Little Rock. Pulaski.
	. Nor Statler Crawford.
	. B. A., Texarkana., Miller,
Mitchell, James	. B. A. Little Rock., Pulaski,
Nicholls, George	. B. A. Helena Phillips.
	. B. A. Harrison Boone.

SOPHOMORES (continued).

NAME. COURSE POST OFFICE	E COUNTY

Patterson, H. A B.	. A	Fayetteville.	Washington.
Philbeck, R. E B.	. A	Fayetteville.	Washington.
Price, C. G B.	. A	Sharp	Woodruff.
*Porter, Mabel B.			
*Rightor, H. H B.			
Ross, W. A E.			
*Rudolph, W. J C.			
Shaha, Richard B.			
Spencer, Mamie B.	. A	Fayetteville.	Washington.
Steward, I. F B.			
*Summers, J. F B.	. A	Forest City.	St. Francis.
Taylor, S. J E.	. E	LeGrange	Lee.
Thomason, Annie B.			
Washington, Ruby B.	. S	Fayetteville.	Washington.
Wassel, F. J B.		Little Rock	
Wiley, Winona B.		Fayetteville.	Washington.
Williams, Hattie B.		Fayetteville.	Washington.
Wood, W. H E.		Fayetteville.	Washington.
Young, F. B B.		Springdale	Washington.

FRESHMEN.

Altheimer, B. L	B. A., Pi	ne Pluff	Jefferson.
*Andrews, A. D	B. A., He	eber	Cleburne.
Angel, Francis	B. A., B1	uno	Marion.
Baker, E. M	M. E., Fa	vetteville.	Washington.
Baker, Margaret	B. S W	itcherville	Sebastian.
Baldwin, Ada	B. A. M.	ansfield	Sebastian.
Beldin, E. T	B. A., He	ot Springs.	Garland.
Beavers, W. W	B. A W	aldron	Scott.
Beldin, Lula	B. A. He	ot Springs.	Garland.
Bell, Hettie	Nor Fa	vetteville.	Washington.
Bentz, J. L	E. E He	ot Springs.	Garland.
Bibb, Lilian	B. A. Fa	yetteville.	Washington.
*Boyce, Minnie	Nor Da	ardanelle	Yell.
Blair, J. H	C. E De	ecatur	Benton.
Buchanan, Florence	Nor Bo	onsboro	Washington.
Buchanan, Maude	Nor Bo	onsboro	Wasnington.
Bufflington, W. R	B. A Co	llege Hill.	Columbia.
Buttram, T. F	B. S Br	rightwater.	Benton.
*Chaney, R. B	Nor Ca	rlisle	Lonoke.
Crawford, Mary	Nor Fa	yetteville.	Washington.
*Clayton, Powell	C. E Et	ireka Spgs	Carroll.
Coffey, C. D	B. S Fa	yetteville.	Washington.
Cory, A. B	E. E Fa	yetteville.	Washington.
*Cowgill, W. B	B. A Fa	yetteville.	Washington.
Cunningham, F. P	B. A. M.	orrilton	Conway.

FRESHMEN (continued).

NAME.	COURSE	POST OFFICE.	COUNTY.
Davis, Maude	BA	Favetteville	Washington
Dean, Lula			
Dengler, F. L			
*Dickson, M. S			
Easterly, Maude			
*Ellington, Leona	B A	Magazine	Logan
Ellis, Miggie	Nor	Favetteville	Washington
*Evans, W. E,			
Evins, Sallie	Nor	Favetteville.	Washington
Fillmore, C. R	E. E	Pine Bluff	Jefferson.
Finkelstein, L., M. D	E. E	Favetteville.	Washington.
Fishback, H. Y	S. E. E.	Fort Smith	Sebastian
Fitzpatrick, L. A	B. A	Helena	Phillips.
*Frost, B. A	E. E	Favetteville.	Washington.
Gallaway, Charlotte	B. A	Favetteville.	Washington.
Gates, Oscar	S. E. E.	Favetteville.	Washington.
*Gatewood, W. G	Phar	Lonoke	Lonoke.
*Goodrum, A. K	Phar	Lonoke	Lonoke.
Gramling, E. G			
Gunter, Minnie			
*Haynes, T. L	B. A	Cleaveland	Conway.
Henderson, C. H	B. A	Pocahontas .	Randolph.
High, E. M	Nor	Lonoke	Lonoke.
Hoag, Mary	Nor	Judsonia	White.
Holmes, D. P	B. A	Nathan	Pike.
Hudson, Walter			
Huie, R. H	B. A	Arkadelphia	Clark.
*Johnson, G. B	B. A	Gipson	Scott.
Johnson, W. P			
*Jones, Fred			
Kantz, Mary	B. A	Fayetteville.	Washington.
Kantz, Mattie	B. A	Fayetteville.	Washington.
Keel, J. H			
Kirby, L			
Knight, Oscar			
Kirby, F. B	B. A	Harrison	Boone.
Lackey, Annie			
Lackey, Dott			
Lawshe, Ida			
Leatherman, G. P	D. A	Lookson	Garland.
LeFlore, Willis *Lindsey, Wright	B. A.	Little Deel	Indian Ter.
*McKinney, J. A	D A	Ozork	Funnski,
*McNew, G. J	D. A	Danola	rrankiin.
*McPhetride, Eugene			
*Martineau, A. C	Phar.	Lonoko	Lonoko
Malone, J. E	Nor	Hackett City	Schastian
May, Mamie	B A	Favetteville	Washington
Mayes, Cora	B A	Fayetteville	Washington.
Mayes, Pauline			
Dang on, American in in	2. 22	Lagorovillo.	" doning ton.

FRESHMEN (continued).

NAME.	COURSE	POST OFFICE.	COUNTY.
Melton, H. A	S.E.E.	Fayetteville.	Washington,
Moore, H. D	B. A	Helena	Phillips.
*Morrow, Cordia	B. A	Favetteville.	Washington,
Morrow, Lula	Nor	Favetteville.	Washington.
Newman, T. J	Phar	Lonoke	Lonoke.
Nichol, Currin	B. S	Pine Bluff	Jefferson.
Norman, P. A	B. A	Seba	Benton.
*Pace, Kate	Nor	Harrison	Boone.
Parker, J. H	B. A	Camden	Quachita.
Pettigrew, Nell			
*Pierce, J. A			
*Pile. T. T	Phar	Van Buren	Crawford
Pittman, Nannie	Nor	Prairie Gr've	Washington.
*Pittman, James			
Pugh, Anna			
Pugh, Celeste	Nor	Favetteville	Washington
Purdy, Lizzie	BS	Favetteville.	Washington.
Putman, L. R			
Randolph, John			
Reynolds, Lenora	B A	Fort Smith	Schaetian
*Richardson, D. A	BA	Charleston	Franklin
Ross, Lucy	B. A.	Boonshoro.	Washington
Rosser, Florence	B. A	Eavetteville	Washington.
Sanders, C. F	B. A.	Hot Springs	Corlord
Sanderson, S. A	Nor.	Favottovido	Washington
Cappington Euto	Nor	Clarksburg	Washington,
Sappington Kate Seawel, A. C	DA	Vollville	Marion
Seawel, A. C	B. A.	Vollville	Marion.
Seawel, W. L	D. E. E.	Flderede	Marion.
*Simpson, J. M	D. A.,	Cincipacti	Union.
Smith, Christina	B. A	Cincinnati	wasnington.
Snapp, J. H	C. E	Snapp	Woodruff.
Spencer, A. R	E. E	Fayetteville.	washington.
Stanford, J. F	B. S	Fayetteville.	Washington.
Taylor, Rose	B. S	Fayetteville.	Washington.
*Taff, S. M	Phar	Fayetteville.	Washington.
Thomason, Demmie	B. A	Fayetteville.	Washington.
Thurman, Sarah	B. A	Fayetteville.	Washington.
Towler, G. F	C. E	Fordyce	Dallas.
*Treadwell, M. F	В. А	Pine Bluff	Jefferson.
Trimble, T. C	B. A	Lonoke	Lonoke.
Turner, B. E	B. S	Cypert	Phillips.
Vedder, E. S	M. E.,	Fayetteville.	Washington.
Warner, S. A	B. A.,	Jonesboro	Craighead.
Watkins, Stella	B. A	Fayetteville.	Washington.
*Watkins. J. A	Nor	Maxville	Sharp.
Wood, G. B	B. A	Hot Springs.	Garland.
Wright, Will	B. A	Sulph'r R'ck	Indep'd'nce.
Wright, A. B	B. S	Fayetteville.	Washington.

SPECIAL.

NAME.	POST OFFICE.	COUNTY.
Adams, C. D	Fort Smith	
Adams, G. H	Pine Bluff	
*Allen, Bruce	Fayetteville	Washington.
Bean, J. L	Boonsboro	Washington.
Blackwell, O. G	Pine Bluff	Jefferson.
Brown, H. R	Little Rock	Pulaski.
Collier, Thenia	Carollton	Caroll.
*Campbell, Loren	Prairie Grove	Washington,
Davies, Rowena	Fayetteville	Washington.
Croxdale, J. H	Bentonville	Benton.
Elder, H. A	Jonesboro	Craighead.
*Gray, Ethel	Little Rock	
Griffin, Kate	Fayetteville	Washington.
Groves, F. M	Waldo	Columbia.
Ostrander, Effie	Fayetteville	
*Romines, J. P	Ashdown	
*Robinson, E. R	Lonoke	
Pittman, R.T., B.S	Fayetteville	
Parker, W. G	Hot Springs	
*Stanford, Nellie	Fayetteviile	
Thomas, Alice	Favetteville	MIT 1 to to
*Vandeventer, J.		0
C. C.; B. S	Fayetteville	Washington.
*Wright, Luther	Sulphur Rock	
*Whitehead, J. E	Rogers	
	2100000	20000000
	IRREGULAR.	
Adams, Mattie	Prairie Grove	Washington.
Lewis, Lena	Fayetteville	
Luther, Lula	Fayetteville	
*Taylor, Mattie	Fayetteville	
*Vincenheller,	Lag outovillo	" ashing ton.
Jeane	Fayetteville	Washington
D.OBLAGO C.	Laj colovillo	Trashing ton.

Special

SUMMARY FOR SHORT SESSION OF 1805 AND FOR 1895-'96.

BY CLASSES.

25 27

55 123

Graduates

Seniors.... Juniors..... Sophomores Freshmen

opeolar	20
Total Counted twice	269 10
	259
BY COURSES.	
Master of Arts	- 0
Master of Science	4
Civil Engineering	2 120
Bachelor of Science	31
Bachelor of Civil Engineering	13
Bachelor of Electrical Engineering	17 5
Normal	26
PharmacyShort course in Electrical Engineering	10 8
Special	25
Total	269
Counted twice	10
	259
CHMMARY FOR CECCION OF -0 -1.	
SUMMARY FOR SESSION OF 1895-'96	
BY CLASSES.	
Graduates	12
Seniors	23
Juniors	21 40
Sophomores	95
Special	12
Total	203
Counted twice	10
	193

BY COURSES.

Master of Arts	6
Master of Science	4
Civil Engineering	2
Bachelor of Arts	97
Bachelor of Science	26
Bachelor of Civil Engineering	10
Bachelor of Electrical Engineering	15
Bachelor of Mechanical Engineering	5
Normal	19
Short Course in Electrical Engineering	7
Special.	12
Spootax.	
Total	203
Counted twice	10
Counted twice,	10
	193
	190

Preparatory Students.

Abbreviations:—A., Agricultural; G., General; E., Engineering.

SECOND YEAR.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Algire, Russel	E	Fayetteville.	Washington.
*Armstrong, W. B.		El Dorado	Union.
Ash, Gertrude		Fayetteville.	Washington.
*Atkinson, T. P	E	Fordyce	Dallas.
Barry, Kate	G.	Fayetteville.	Washington.
Bates, Madge		Fayetteville.	Washington.
Baum, Joseph	G	Fayetteville.	Washington.
Beakley, J. D		Pocahontas	Randolph.
Beaty, Z. T	G	Audubon	Texas.
*Bell, Joseph	E	Fayetteville.	Washington.
Boatwright, Volney	G	Van Buren	Crawford.
Brown, E. T	E	Sweet Home.	Pulaski.
Brown, J. A	E	Sweet Home.	Pulaski.
*Buchanan, Grace	G	Fayetteville.	Washington.
Burgess, Edith	G	Fayetteville.	Washington.
Burgess, Irene	G	Fayetteville.	Washington.
Burton, J. B	G	Hope	Hempstead.
Bush, W. L	E	Caney	Kansas.
Buttram, J. H	G	Brightwater	Benton.
Buttram, Mary	G	Brightwater	Benton.
Byrnes, Nellie	G	Fayetteville.	Washington.
Byrum, J. M		Sulp'r Rock.	Independ'e.
Campbell, Effie	G	Fayetteville.	Washington.
*Carruth, G. B	G	Beverly	Sebastian.
Carter, T. A	E	Ozark	Franklin.
*Cato, E. W	G	Fayetteville.	Washington.
Chapman, Alberta.	G	Fayetteville	Washington.
Clancy, Nellie		Fayetteville.	Washington.
*Clark, F. L	G	West Fork	Washington.
Clay, Gertrude	G	Fayetteville.	Washington.
Cole, Lillie		Dardanelle	Pope.
Cole, Lizzie		Dardanelle	Pope.
Cole, C. E		Dardanelle .	Pope.
Collier, J. T		Washburn	Sebastian.
Conner, Agnes		Fayetteville.	Washington.
Cory, H. J		Fayetteville.	Washington.
Cravens, H. W		Hartman	Johnson.
Crozier, Mary	G	Boonsboro	Washington.
Crozier, W. H	E	Boonsboro	Washington.
Crozier, Lizzie	G.,	Boonsboro.	Washington.
Cummings, Douglas	G	Prairie Grove	Washington,

NAME.	COURSE.	POST OFFICE.	COUNTY.
Curry, Merle	G	Favetteville.	Washington.
Curry, E. R	E	Fayetteville.	Washington.
*Daniel, W. A	G	Waldo	Columbia.
*Dark, R. H		Hardy	Sharp.
Darragh, F. J	E	Little Rock.	Pulaski.
Davenport, Fannie.	G	Pierce City	Missouri.
Deans, W. A	G	Garfield	Benton.
Dean, Arthur		Frostville	Lafayette.
Deaver, Bertha		Springdale	Washington.
*Douglas, S. W		Belfast	Grant.
Driver, E. E	E	Osceola	Mississippi.
Droke, G. P	G	Fayetteville.	Washington.
Duren, A. B. C		Yellville	Marion.
Eason, Evie		Fayetteville.	Washington.
Edwards, T. A	G	Holla Bend.	Pope.
Ellis, Gertrude		Fayetteville.	Washington.
*Evins, W. M		Fayetteville.	Washington.
Felkner, J. E		Rogers	Benton.
Forester, Minnie	G	Waldron	Scott.
Floyd, J. A	G	Malvern	Hot Springs.
Foushee, W. S	E.	Newport	Jackson.
Friend, H. B		Marianna	Lee.
Gaskill, Lettie		Fayetteville.	Washington.
Gee, Estelle		Fayetteville.	Washington.
George, W. E		Berryville	Carroll.
Goodwin, Walter	G	Eldorado	Union.
Hamiter, Emmet	G	Walnut Hill.	Lafayette.
Hardin, Kate		Fayetteville.	Washington.
Harkey, T. S		Taral	Pope.
Hedrick, Della		Fayetteville.	Washington.
Henderson, E. R		Pocahontas .	Randolph.
Henderson, S. L		Fayetteville.	Washington.
*Hightower, G. T		Fort Smith.	Sebastian.
Hill, Lola		Fayetteville.	Washington.
Hinman, Ernest	G	Fayetteville.	Washington.
Holt, Charles	E	Bellfonte	Boone.
Hornor, J. L	G	Helena	Philips.
*Horsley H R	G	Rogers	Benton.
*Horsley, H. B Horsley, W. B	E	Rogers	Benton.
Horsfall, Frank	Δ	Hazen	Prairie.
Howell, Edward		Fayetteville.	Washington.
Hudson, Leon		Sub Rosa	Franklin.
Hyde, J. L		Tillar	Drew.
*Jacobs, L. P	G	Harmony	Johnson.
		Atkins	Pope.
*Johnson, J. H *Johns, W. H	Δ	Uniontown	Crawford.
Jones, Doswell		Fayetteville.	Washington.
*Justice, Mattie		Ponca Age'y.	Oklahoma.
		Fayetteville.	Washington.
Kell, Bessie King, Ruby Gray	G	Harrison	Boone.
Kimbrough, Nestor		Van Buren	Crawford.
Kitchens, W. H	G	Waldo	Columbia.
ittolicus, v. II		11 4140 11111	COMMITTED IN

NAME. COURSE.	POST OFFICE.	COUNTY.
Leckie, Archie	Fayetteville.	Washington
*Lee, IlusG.	Cassville	Washington. Missouri.
*Lipsey, AlvaG.	Lonoke	Lonoke.
Long, MarguriteG	Fayetteville.	Washington.
*Looney, G. W	Fayetteville.	Washington.
Malana Otta	Fayetteville.	Washington.
Malone, Otto	Waldron	Scott.
Marcheselli, CG.	Fayetteville.	Washington.
Martin, E. G G Mathews, G. U G	Little Rock	Pulaski.
Mathews, G. U	Eureka	Carroll.
Matlock, T. TA.	Tulip	Dallas.
Maxwell, W. EE.	Monticello	Drew.
Meritt, Meah	Fayetteville.	Washington.
Meritt, May	Fayetteville.	Washington.
McClanahan, CarrieG	Fayetteville.	Washington.
*McCray, E. HG	Malvern	Hot Springs.
*McIlroy, KateG	Fayetteville.	Washington.
*McKinney, H. CG	Hillsboro	Union.
McMillan, O. LG	Fayetteville.	Washington.
McMillan, O. LG *McPherson, W. TG	Pottsville	Texas.
McReynold, J. CG	Siloam Sp's	Benton.
*Moore, AmandaG	Fayetteville.	Washington.
*Moore, John AA	Three Creeks	Union.
*Moore, F. N	Fayetteville.	Washington.
Miller, OthnielG.	Van Buren	Crawford.
*Morgan, E. H G.	St. Louis	Missouri.
Morrow, AgnesG	Fayetteville.	Washington.
Morrow, AnnieG.	Greenwood	Sebastian.
*Morrow, TerryG	Hubbard	Washington.
Mount, A. LA	Fayetteville.	Washington.
Munn, M. J E.	Bodcaw	Nevada.
Nix, R. EE	Fayetteville.	Washington.
Oden, J. WG.	Clifton	Lee.
Oliver, KateG.	Fayetteville.	Washington.
Oliver, BessieG.	Fayetteville.	Washington.
*Owens, O. J G.	Enders	Franklin.
Parks, BessieG.	Boonsboro	Washington.
Peninger, EffieG.	Auburn	Sebastian.
Pettigrew, LillianG.	Fayetteville.	Washington.
Pettigrew, G. G G.	Fayetteville.	Washington.
*Pottigrow G A G	Charleston	Sebastian.
*Pettigrew, G. AG.		
Phillips, MamieG.	Springdale	Washington.
Pollard, J. W G.	Gaither	Boone,
Pond, George	Fayetteville.	Washington.
*Pool, Mamie,	Newport	Jackson.
*Powell, WilliamG.	Fayetteville.	Washington.
Price, C. C E.	Stuttgart	Arkansas.
Ramsaur, L. S	Augusta	Woodruff.
Rattenbury, WilliamG	Fayetteville.	Washington.
Robinson, MaryG.	Fayetteville.	Washington.
Rogers, T. H G.	Dublin	Logan.
*Roller, GeorgeG	Washburn	Missouri.

NAME. COURSE	POST OFFICE.	COUNTY.
Ross, H. L	Boonsboro	Washington.
Rutherford, R. P E.	Fort Smith	Sebastian.
*Sample, S. G E	Mansfield	Louisiana.
Shannon, DoraG	Fayetteville.	Washington.
Shorten, W.JG	Marianna	Lee.
*Skelton, FredE.	Fayetteville.	Washington.
Steele, R. E	Ozark	Franklin.
Stone, May	Fayetteville.	Washington.
Strain, R. GG	Helena	Phillips.
Swan, J. S	Bodcaw	Nevada.
Talkington, C. RG	Taral	Pope.
Taylor, D. WG	Pine Bluff	Jefferson.
Thompson, A. S G.	Fayetteville.	Washington.
*Thomas, B G	Dardanelle	Pope.
Tilley, Mary G.	Fayetteville.	Washington.
Tilley, Clara G	Fayetteville.	Washington.
Tolle, F. A	Fayetteville.	Washington.
Tolle, Delia	Fayetteville.	Washington.
*Tunis, E. J	Carlisle	Lonoke.
Vandeventer, Geraldine.G	Fayetteville.	Washington.
Vincenheller, G. Ashton. G.	Fayetteville.	Washington.
Wade, J. S E	Fayetteville.	Washington.
Wade, L. A	Fayetteville.	Washington.
Walker, J. F	Beebe	White.
Walker, H. O	Newport	Jackson.
Walters, A. J	Bellfonte	Boone.
Ward, Rankin	Marion	Crittenden.
Watson, CathrineG	Bentonville.	Benton.
Weast, Lucien	Yellville	Marion.
Weast, Virgil E	Yellville	Marion.
Welch, Albert G.,	Yellville	Marion.
Whitley, ClarenceG	Cabot	Lonoke.
Wiley, Pearl G	Fayetteville.	Washington.
Wilkinson, Norman G	Charleston	Franklin.
Williams, GeorgiaG	Fayetteville.	Washington.
Williams, IoneG	Fayetteville.	Washington.
*Williams, Sidney E.	Fayetteville,	Washington.
*Williams, O. H E	Fayetteville.	Washington.
Wood, CoraG.	Fayetteville.	Washington.
* Wooten, J. P G.	Dardanelle	Pope.
Wright, LawrenceE	Catcher	Crawford.
Young, DaisyG.	Springdale	Washington.

FIRST YEAR.

Ahrens, Clara	Fayetteville.	Washington.
*Allis, H. B	Little Rock	Pulaski.
Anderson, Jas. HE	Fayetteville.	Washington.
Andrews, John ME	Fayetteville.	Washington.
Archer, J. A	Malvern	Hot Springs.
*Archer, Charles AG	Malvern	Hot Springs.

NAME. COURSE.	POST OFFICE.	COUNTY.
Babb, EffieG	Fayetteville.	Washington.
Babb, WrotenG.	Fayetteville.	Washington.
Ragby G H E	Lake Village	Chicot.
Bagby, G. H	Fayetteville.	Washington.
Baldwin, HenryE	Mansfield	Sebastian.
Basset, Cora	Fayetteville.	Washington.
*Bates, JosephA.	Fayetteville.	Washington.
Roamos Isham G	Bennington.	Indian Ter.
Beames, IshamG *Bell, J. AA	Haynes	Lee.
Bell, LillieG	Fayetteville.	Washington.
Berry, ElliottE	Bentonville	Benton.
Berry, L. PE	Marion	Crittenden.
Berry, Mary	Marion	Crittenden.
Blackmer, LillieG	Fayetteville.	Washington.
*Blackwell, EvaG	Perryville	Perry.
*Black, ClydeG	Mars Hill	Lafayette.
*Blake, LauraG	Dutch Mills.	Washington.
Playlock I C	Fayetteville.	Washington.
Blaylock, J. C E Brasch, Charles	Newport	Jackson.
*Breathwit, HughG	Kingland	Cleveland.
Brookover I C E	Fayetteville.	Washington.
Brookover, J. CE Brown, MaryG	Fayetteville.	Washington.
*Brown, J. WG	Stattler	Crawford.
Brooks, EffieG.	Fayetteville.	Washington.
Buchanan, MaryG	Boonsboro	Washington.
Buchanan, HerbertG	Boonsboro	Washington,
Buchanan, FrankG	Fayetteville.	Washington.
Butts, RayA	Dublin	Logan.
*Byars, C. S E	Alma	Crawford.
Byrnes, BessieG	Fayetteville.	Washington.
Caldwell, J. A	Lowell	Benton.
Campbell, JudsonG	Fayetteville	Washington.
*Campbell, LizzieG	Moffit	Washington.
Carter, Elmo E	Riverside	Woodruff.
Casteel, Gordon G	Forest City	St. Francis
Chamness, B. CG	Centre Ridge	Conway.
Chapman, MelvaG	Fayetteville.	Washington.
Chapman, W. H E.	Fayetteville.	Washington.
Clayton, John M	Eureka	Carroll.
Clancy, Willie, E.	Fayetteville.	Washington.
Clark, J. HG	Goshen	Washington.
Cleaver, E. AE	Russellville	Pope.
Cole, Mary	Boonsboro	Washington.
Cole, CarlE	Boonsboro	Washington.
Cole, MattieG	Boonsboro	Washington.
*Conner, EthelG	Fayetteville.	Washington.
*Conner, BirdieG	Fayetteville.	Washington.
*Coolidge, EllisG Cooper, WillisG	Helena San Bois	Phillips. Indian Ter.
Cooper, Sallie G.	Fayetteville.	Washington.
Cowdrey, E. E E.	Yellville	Marion.
Cox, Gilbert E.	Fayetteville.	Washington.
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NAME.	COURSE.	POST OFFICE.	COUNTY.
Crandall, Lizzie	G	Clyde	Washington.
Crawford, J. D		Sulphur City	Washington.
Crenshaw, J. T		Fayetteville.	Washington.
Crowley, L. G		Paragould	Green.
Curry, Clarence		Fayetteville.	Washington.
*Daly, M. G	G	Bodcaw	Nevada.
Darr, R. W	G	Atkins	Pope.
Davies, Edith	G	Fayetteville.	Washington.
Davis, Claude		Fayetteville.	Washington.
Davis, J. M		Chocoloco	Alabama.
Dawson, W. F	G	Greenwood .	Sebastian.
Dean, David	Δ	Alston	Franklin.
*Deisch, F. J	F	Barton	Philips.
Dorsey, C. C	E	Fayetteville.	Washington.
Dowell, Ernest	E	Fayetteville.	Washington.
Dowell, Pearl	G	Fayetteville.	Washington.
*Downs, R. V	E	Pine Bluff.	Jefferson.
Duncan, Annie		Fayetteville.	Washington.
Duncan, H. B		Spanish C'p.	Texas.
Dunn, J. L		Fayetteville.	Washington.
Dunn, W. F		Fayetteville.	Washington.
Dumas, C. R	G	Lisbon	Union.
Durham, W. H	E	Hot Springs.	Garland.
Durden, J. J	G	Greenwood.	Sebastian.
Dyer, S. J	E	Dver	Crawford.
Eason, Bessie		Fayetteville.	Washington.
Easterly, J. G	A	Fayetteville.	Washington.
Eichelberger, Fann		Fayetteville.	Washington.
*Eichelberger, Flore	nceG.	Fayetteville.	Washington.
*English, T. M	E	Dutch Mills.	Washington.
English, Laura	G	Dutch Mills.	Washington.
Ellis, W. Y	E	Fayetteville.	Washington.
Ellis, Baxter	G	Helena	Phillips.
Evins, Mamie		Fayetteville.	Washington.
Evins, H. C	E	Fayetteville.	Washington.
Eubanks, Mary	G	Paris	Texas.
Farley, J. W	E	Trident	Benton.
Fellheimer, Herman	nE	Hot Springs.	Garland.
*Flanary, C. A	E	Clarence	Indian Ter.
*Forest, Daisy	G	Huntsville	Madison.
Gallaway, Rowena	G	Fayetteville.	Washington.
Gollaher, Nora	G	Fayetteville.	Washington.
*Grant, R. L	A	Haynes	Lee.
*Granville, G. G		Jonesboro	Craighead.
*Graves. N. G	G	Lexa	Philips.
Gray, Winfield	G	Oiltrough	Independ'ce.
Gray, R. A		Altus	Franklin.
Griffin, E. H	E	Fayetteville.	Washington.
Hagood, A. S		Fayetteville.	Washington.
Hamiter, Eugene,	E	Walnut Hill	Lafayette.
Hardin, W. D	E	Marion	Crittenden
Harmon, Jessie	· · · · · · · · · · · · · · · · · · ·	Wyman	Washington.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Harriman, Francis.	G	Carmel	Chicot.
Harrison, E. O		. Fayetteville.	Washington.
*Harrison, T. E		Fayetteville.	Washington.
Harris, Kittie		Fayetteville.	Washington.
*Harris, U. D	E	Turkohoma .	Indian Ter.
Harper, Marvin	E	Three Creeks	Union.
*Hatcher, L. F	G	Scotland	Missouri.
*Hatcher, L. F *Hearin, Lynch	E	Hillsboro	Union.
Hedrick, Ward	E	Fayetteville.	Washington.
Hight, Willie	E	Fayetteville.	Washington.
Hill, Ethel	G	Fayetteville.	Washington.
Hill, H. B	E	Fayetteville.	Washington.
Holmes, Tillar	G	Selma	Drew.
*Horne, L. F	G	Fayetteville.	Washington.
*Horner, Theo	E	Carmel	Chicot.
*Horner, J. A	G	Helena	Phillips.
Horsfall, Thomas	G	Hazen	Prairie.
*Howard, C. C	E	Dryfork	Carroll.
Hudgins, W. H		Dallas	Polk.
Hudgins, Annie		Dallas.	Polk.
Hudson, Mattie		Fayetteville.	Washington.
Hudson, Dollie		Fayetteville.	Washington.
Hunt, Howard		Fayetteville.	Washington.
Isbell, Virginia	G	Fayetteville.	Washington.
*Jackson, James	<u>E</u>	Monticello	Drew.
*Jacobs, Tandy		Harmony	Johnson
*James, N. G	E	Eureka	Carroll.
*James, F. D	E	Fayetteville.	Washington.
*Jameson, Marcus.	A	El Dorado	Union.
Johnson, M. D	E	Pine Bluff	Jefferson.
Johnson, Waldo P.	E	Paris	Texas.
Johnston, F. N	E	Ozark	Franklin.
Jones, Nora Jones, A. L	G	Fayetteville.	Washington. Johnson
		Hattieville	Conway.
Jones, J. A		Fayetteville.	Washington.
Kantz, Maud Kantz, Willie	G	Fayetteville.	Washington.
Kantz, Fred	E.	Fayetteville.	Washington.
Kimbrough, Daisy	G	Dutch Mills.	Washington.
Kirby, W. R		Little Rock.	Pulaski.
Knesal, Edward	E	Fayetteville.	Washington.
Kruse, C. A		Lake Village	Chicot.
Lake, Horton	Ğ	Fayetteville.	Washington.
Laughinghouse, E	G	Fayetteville.	Washington.
Lewis, J. D	E	Wyman	Washington.
Leverett, Ed	E.	Fayetteville.	Washington.
Lininger, C. B	G	Springdale	Washington.
Little, Jesse	G.	Greenwood	Sebastian.
Little, Paul		Greenwood :	Sebastian.
*Lohman, Eugene.	G	Helena	Philips.
*Luther, C. H	E	Fayetteville.	Washington.
Luckenbill, John		Snapp.,,	Woodruff.
		* *	

NAME.	COURSE.	POST OFFICE.	COUNTY.
*Madding, G. L	E	Madding	Jefferson.
*Mahoney, E. O	G	Arkadelphia	Clark.
*Malone, N. C	G	Waldron	Scott.
*Mann, Bertha		Winslow	Washington.
*Martin, Lula		Hackett	Sebastian.
Martin, W. A		Indian Bay .	Monroe.
Mayes, Helen	G	Favetteville.	Washington.
Melton, Hattie	G	Fayetteville.	Washington.
Melton, Cora		Favetteville.	Washington.
*Mengoz, Edward	G	Barton	Philips.
Mesler, Rector		Fayetteville.	Washington.
Merony, Edward		Star City	Lincoln.
*McAbee, Moses	A	Charleston .	Franklin.
*McBee, E. C	G	McBee's Ldg	Marion.
*McCormack, J	E	Fayetteville.	Washington.
*McClure, Agnes	G	Boonsboro	Washington.
*McDaniels, G.S	G	Jonesboro	Craighead.
McHatton, J. A	E	Robinson	Benton.
McNiell, Leslie	E	Fayetteville.	Washington.
*McPherson, S. H	G	Hamilton	Texas.
Middleton, R. J	E	Fayetteville.	Washington.
Miller, Maud	G	Mandeville	Missouri.
Monroe, Dora	G	Fayetteville.	Washington.
Moon, Joseph L	E	Walnut Rdge	Lawrence.
Moore, L. R	G	Oak Lodge	Indian Ter.
Moore, Nellie	G	Fayetteville.	Washington.
*Moore, G. C	E	Fayetteville.	Washington.
*Moore, Jones A	E	Atkins	Pope.
Morgan, W. W	E	Star City	Lincoln.
Mough, Mable	G	Fayetteville.	Washington.
*Nash, Frankie	G	Joplin	Missouri.
*Nash, Arthur	E	Joplin	Missouri.
Nettleship, Milroy.	E	Fayetteville.	Washington.
*Nettleship, E. L	G	Fayetteville.	Washington.
Newton, Frank		Portland	Ashley.
Norman, W. S		Fayetteville.	Washington.
Oliver, Cora		Fayetteville.	Washington.
O'Kane, W. S	E	Altus	Franklin.
*Owens, E. O	A.,	Yellville	Marion.
*Parish, Fred	G	Newport	Jackson.
*Patton, Rush		Pine Bluff	Jefferson.
Patterson, Mae		Fayetteville.	Washington.
Payne, D. G	E.	Fayetteville.	Washington.
Payne, Bessie		Fayetteville.	Washington.
Philbeck, J. W	· · · · · · · · · · · · · · · · · · ·	Fayetteville.	Washington.
Pleasants, W. E		Fayetteville.	Washington.
Pugh, Julia Quarles, Tevie		Fayetteville.	Washington.
*Quilling, D. K		Lake Village	Chicot.
Raines, Fred	G	Fort Smith	Sebastian.
Randolph, J. P	G	Hot Springs.	Garland.
Read, Florida		Fayetteville.	Washington.
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NAME.	COURSE.	POST OFFICE.	COUNTY.
*Read, Alex	G	Fayetteville.	Washington.
Rees, W. A		Fayetteville.	Washington.
Robinson, Fannie		Fayetteville.	Washington.
Robinson, Pearl			
		Fayetteville.	Washington.
Rogers, G. S		Farmington.	Washington.
Rogers, C. B	E	Neosho	Missouri
*Rosser, Thomas		Fayetteville.	Washington.
Rosser, Olga *Rowell, Frank		Fayetteville.	Washington.
Pushing P F	E	Tyro	Lincoln.
Rushing, B. F *Samuelson, Delia.		Dover	Pope.
Samuelson, Della.	G	Fayetteville.	Washington.
Scott, Olive	G	Fayetteville.	Washington.
*Shannon, Gunter.	E	Fayetteville.	Washington.
Sheppard, J. W		Three Creeks	Union.
Sheppard, J. W Shuler, G. W Shuler, R. N		Fayetteville.	Washington.
Shuler, R. N		Fayetteville.	Washington.
Simonds, E. B	E	Fayetteville.	Washington.
Slaughter, J. L		Goshen	Washington.
Smith, C. E	E	Marion	Crittenden.
Smith, Gertrude	G	Fayetteville.	Washington.
Smith, W.H	E	Fayetteville.	Washington.
Smith, J. R	G	Etna	Franklin.
*Spencer, Felix	E	Fayetteville.	Washington.
Stephens, Geo. K		Newport	Jackson.
Stone, S. K		Fayetteville.	Washington.
Stone, B. H		Fayetteville.	Washington.
Swink, Percy		Festus	Missouri.
Smeltzer, Homer		Van Buren	Crawford.
Taylor, Lena		Fayetteville.	Washington.
Taylor, T. G	E	Fayetteville	Washington.
Tilley, Ada	<u>G</u>	Fayetteville.	Washington.
Thach, S. R	<u>E</u>	Russellville.	Pope.
Thompson, J. T	G	Russellville.	Pope.
*Tomlinson, Charle		Fort Smith	Sebastian.
Turner, J. C		Cypert	Phillips.
*Turner, Paul K	G	Eureka	Carroll.
*Turner, Renfro		Poplar Grove	Phillips.
Vandeventer, Ed	G	Fayetteville.	Washington.
Vandover, R. C	G	Rogers	Benton.
Vaulx, Susie		Fayetteville	Washington.
Vaulx, Eleanor		Fayetteville.	Washington.
Vining, Fred	G	Pine Bluff	Jefferson.
Waddill, J. B	G	Paris	Logan.
Walker, Erin	G	Fayetteville.	Washington.
Walker, Jennie	G	Fayetteville.	Washington.
Wallace, Ethel	G	Fayetteville.	Washington.
*Warfield, C. M	G	Lexa	Phillips
Warner, T. D	G	Jonesboro	Craighead.
Watts, N. V	E	Muldrow	Indian Ter.
Wellborn, H. K	G	Helena	Phillips.
*West, C. G	G	Berryville	Carroll.
*Westbrook, H	G.,	Trask wood	Saline.

NAME.	COURSE.	POST OFFICE.	COUNTY.
Whithorne, J. D	G*	Lake Village	Chicot.
Whitlow, Annie		Fayetteville.	Washington.
*White, D. C	E	Seba	Benton.
*White, Thomas	G	Fayetteville.	Washington.
Whitten, Camillos.	A.,	Bodcaw	Nevada.
*Williams, J. L	G	Cincinnati	Washington.
Williams, Raymond	1E	Fayetteville.	Washington.
Williamson, A. W.	E	Jackson	Mississippi.
Willard, Bunyan	E	Hot Springs.	Garland.
Wilson, M. K	G	Camden	Ouachita.
Wilkins, Ernest	G	Phillips	Lee.
Winn, J. E	G	Nashville	Howard
Wilson, Claud	A	Farmington.	Washington.
Wolford, Thomas	E	Fayetteville.	Washington.
Wolford, Charles	E	Fayetteville.	Washington.
Woods, Lee · · · ·	E	Seba	Benton.
Wood, Nora	G	Harris	Washington.
Wood, Mattie	G	Fayetteville.	Washington.

MUSICAL DEPARTMENT.

NAME.	POST OFFICE.	COUNTY.
Ash. Gertrude	Favetteville.	Washington.
Baum, Florence	Fayetteville.	Washington.
Berry, Mary	Crittenden	Marion.
Blackburn, Rowena	Fayetteville.	Washington.
Brasch, Charles	Newport	Jackson
Brown, E. T	Sweet Home.	Pulaski.
*Buchanan, Grace P	Fayetteville.	Washington.
Buchanan, Frank E	Fayetteville.	Washington.
Byrnes, Bessie	Fayetteville.	Washington.
*Curry Jennie	Fayetteville.	Washington.
*Curry, Jennie Cooper, Willis	Sans Bois	Indian Ter.
Davis, Annie D	Fayetteville.	Washington.
Davies, Edith	Fayetteville.	Washington.
Deavers, Bertha	Springdale.	Washington.
Duncan, Annie	Fayetteville.	Washington.
Duncan, Eleanor	Fayetteville.	Washington.
Gunter, Gertrude	Fayetteville.	Washington.
Hill, Lola	Fayetteville.	Washington.
Hoag, Alice	Judsonia	White.
Hudgins, Annie	Dallas	Polk.
Hudson, Mattie	Fayetteville.	Washington.
King, Ruby	Harrison	Boone.
Lake, Horton	Fayetteville.	Washington.
Leverett, Rose	Fayetteville.	Washington.
Lewis, Lena	Fayetteville.	Washington.
*Magraw, Nona	Ridgeway	Missouri.
Melton, Henry	Fayetteville.	Washington.
Morrow, Annie	Greenwood .	Sebastian.
Phillips, Mamie	Springdale	Washington.
Reed, Clifton	Fayetteville.	Washington.
Reynolds, Nona	Eureka Spgs.	Carroll.
Smeltzer, Homer	Van Buren	Crawford.
Smith, Gertrude	Fayetteville.	Washington.
*Taylor, Mattie	Fayetteville.	Washington.
Tilly, Clara	Rheas Mills.	Washington,
*Vincenheller, Jeanne	Fayetteville.	Washington,
Watson, Katherine	Bentonville.	Benton.
Whitlow, Annie	Fayetteville.	Washington.
Wood, Mattie	Fayetteville.	Washington.

SUMMARY FOR SHORT SESSION OF 1895 AND FOR 1895-'96.

BY CLASSES.	
Cooling Lower in the contract of the contract	187 284
Total	171
BY COURSES.	
The state of the s	23 13 6 312
	171
Note.—The above summary includes pupils enroll during the short term, beginning March 5, 1895, and ening July 17, 1895, also for term beginning September 1895, and ending June 18, 1896.	id-
SUMMARY FOR SESSION OF 1895-'96.	
BY CLASSES.	
Coconic Touristics and a second secon	145 210
Total	355
BY COURSES.	
Engineering	16 108 231
Total	355
GENERAL SUMMARY, 1895-'96.	
	193 355 38
Total	586 31
	555
Total at Fayetteville	86 22
Branch Normal Students (Pine Bluff) 1	169
Total 8	332

Alumni Association.

The object of this association is to maintain the interest of the graduates in the institution and bring them into closer relation with the University. To this end all graduates are considered members. The association holds meetings annually during commencement week. The officers of the association for 1894 are:

J. N. TILLMAN, President. MISS MATTIE PATTON, Secretary.

Committee on Banquet:

J. V. WALKER, G. W. DROKE, MRS. J. F. MAYES, MISS JESSIE CRAVENS. Committee on Speaker:

J. F. MAYES, DR. A. S. GREGG, B. F. WOOD.

LIST OF ALUMNI.

- Don C. B. Aiken, C. E., '89, Eng. Dep., Johnstown Co., Johnstown, Pa.
- L. S. Anderson, B. L. L., '84, clerk in land office, Washington, D. C.
- J. D. Arbuckle, B. A., '92, Principal Public Schools, Magazine, Ark.
- C. F. Armistead, B. A., '93, Principal Belle Point Public School, Fort Smith, Ark.
- L. R. Ash, C. E., '93, Prof. Mathematics Coe College, Cedar Rapids, Iowa.
- C.O. Bates, A. B., '83, Prof. of Chemistry, Coe College, Cedar Rapids, Iowa.
- J. H. Bates, B. A., '86, Lawyer, Corsicana, Texas.
- J. C. Bell, B. A., '94, Teacher of German, High School, Fort Smith, Ark.
- Nettie Barnett, B. L., '76, Mrs. C. E. Boles, Fayetteville, Ark.

Blanche Bibb, B. A., '93, Fayetteville, Ark.

- J. W. Black, B. A., '92, Lawyer, McAlester, I. T.
- W. J. Blackwell, B. C. E., '92, Engineer, Golden Lake, Ark.
- Nora Blakely, A. B., '78, Mrs. H. M. Hudgins, Fayetteville, Ark.

E. H. Braly, B. A., '94, Fayetteville, Ark.

W. P. Booth, A. B., '82, Farmer, Reyno, Ark.

Alice Borden, '77.

Laura D. Botefuhr, '75, Mrs. G. W. Schulte, Fort Smith, Ark.

Preston Bowles, B. C. E., '88, W. Va. Central R. R., Elkins, W. Va.

O. P. Brewer, B. S., '93, Webbers Falls, I. T.

W. D. Brown, A. B., '82, Physician, Newtonia, Mo.

J. W. Butler, A. B., '79, Real Estate Agent, Washington. *E. B. Carden, B. L., '77.

*Ella Carnall, A. M., '81.

A. H. Carrigan, A. B., '82, Lawyer, Washington, Ark.

Ann E. Carson, '75, Mrs. Jno. Knight, Jonesboro, Ark.

Augusta O. Carson, '75, Mrs. T. W. Cline, Downey, Cal. C. K. Chanslor, A. B., '82, Lawyer, Grant's Pass, Oregon. W. R. Cherry, A. B., '82.

Jessie Cravens, B. L. L., '83, Instructor in Elocution, Ark. Ind. University.

Wm. N. Crozier, B. A., '88, Missionary to China.

Lula Curry, B. S., '92, Mrs. G. L. Teller, Fayetteville, Ark.

Mike Danaher, B. A., '88, Lawyer, Ozark, Ark.

Hadge Davies, B. A., '93, Instructor in Anglo-Saxon and English Literature, Augusta Female Seminary, Staunton, Va.

Lizzie P. Davis, '75, Mrs. R. C. Brown, Florence, Arizona, W. E. Dixon, B. A., '88, Teacher in Waldo, Ark.

C. H. Drake, B. C. E., '91, Engineer with J. A. C. Waddell, Kansas City, Mo.

N. F. Drake, B. C. E, '88, Asst. State Geologist, Austin, Tex.

G. W. Droke. A. M., '80, Asso. Prof. of Mathematics, Ark. Ind. University.

W. H. Duncan, B. L. L., '84, Lawyer, Conway, Ark.

Mallie Dyer, B. A., '94, Prof. of English and German, Florida State College, Tallahassee, Florida.

*W. L. Edmiston, B. L. L., '84.

F. W. Ellis, A. B., '81, U. S. Signal Service, Galveston, Tex.

W. W. England, A. B., '83.

L. F. Fishback, B. S., '89, Lawyer, Wichita Falls, Tex.

J. C. Floyd, A. B., '79, Lawyer, Yellville, Ark.

W. M. Flynn, B. A., '88, Teacher, Kennedale, Tex.

J. R. Gannaway, B. A., '90, Warren, Ark.

D. A. Gates, A. B., '84, County Judge, Desha Co., Arkansas City, Ark.

J. E. Gibson, M. E., '94, Civil Engineer, Philadelphia, Pa. W. P. Goodwin, B. L. L., '84, Merchant, El Dorado, Ark. Belle L. Gorton, A. B., '76, Author, Chicago, Ill.

C. D. Greaves, A. B., '83, Lawyer, City Attorney, Hot Springs, Ark.

*Alfred W. Gregg, A. B., '76.

Andrew S. Gregg, A. B., '78, Physician, Fayetteville, Ark. L. W. Gregg, A. B., '82, Lawyer, Fayetteville, Ark.

C. E. Hall, B. C. E., '93, Civil Engineer, Russelville, Ark.

H. J. Hall, B. A., '94, State Senator, Waldron, Ark.

W. J. Hamilton, B. A., '92, Lawyer, McAlester, I. T.

Agnes Harris, A. B., '76, Mrs. Johnson, Kansas City, Mo. Sara E. Harris, A. B., '76, Mrs. C. P. Conrad, Osceola, Mo. Grace Harrison, B. S., '89, Mrs. T. L. Brown, Greenwood, Ark.

J. H. Harrod, A. B., '79, Lawyer, Little Rock, Ark.

J. C. Hart, A. B., '85, Lawyer, Dardanelle, Ark.

J. T. Hawkins, '79, Physician, Mount Holly, Ark.

J. D. Head. B. A., '94, Deputy Circuit Clerk, Little River Co., Columbia, Ark.

I. G. Hedrick, B. C. E., '92, Civil Engineer, Kansas City, Mo.

W. Rhodes Hervey, B. S., '90, Lawyer, Santa Anna, Cal. E. W. Hillis, B. L. L., '84, Lawyer, Jonesboro, Ark.

*J. H. Hobbs, A. B., '88.

Daniel Hon, A. B., '82, Lawyer, Waldron, Ark.

Cener Holcomb, B. A., '92, Teacher, Harrell Institute, Muskogee, I. T.

S. A. Horton, B. A., '91, Lawyer, Fairview, Ark.

J. W. Howell, B. L. L., '85, Cotton Buyer, Clarksville, Ark.

J. H. Hudson, B. L. L., '84, Farmer, Dardanelle, Ark.

G. A. Humphreys, A. B., '90, Assistant Physician, Bellevue Hospital, N. Y.

Edgar Jennings, A. B., '77.

Gustave Jones, B. L. L., '82, Lawyer, Newport, Ark.

Albert P. Johnson, A. B., '76, Lawyer, Winfield, Kan.

*T. M. Johnson, B. L. L., '80.

G. H. Kimball, B. C. E., '92, Auditor of the D. & P. R. R., Dardanelle, Ark.

Artelle Alice King, B. L. L., '80, Mrs. J. C. Belt, Brooken, I. T.

E. B. Kinsworthy, B. L. L., '85, Attorney General of the State of Arkansas. T. B. Kitchens, A. M., '80, Merchant, Paragould, Ark. Ella Lake, B. L. L., '84, Mrs. S. W. Barnett, Fayetteville, Ark.

W. H. Langford, A. B., '86, Banker, Member of the Board of Trustees, A. I. U., Pine Bluff, Ark.

J. A. M. Lanier, A. B., '82.

Abbie Leverett, B. A., '94, Teacher, Georgetown, Texas. Mary Leverett, B. A., '86, Mrs. J. A. Taff, Washington, D. C.

Eva McCart, '75, Mrs. D. M. Main, Cheney, Kan.

J. B. McDonough, A. B., '82, Ass't U. S. Prosecuting Attorney, Member of the Board of Trustees, A. I. U., Fort Smith, Ark.

W. R. McFarlane, A. B., '82, Lawyer, Greenwood, Ark. Chas. F. McKinney, '75, Traveling Salesman, Ozark, Ark. Jno. C. McNeeley, B. C. E., '89, Planter, Rackensack, Ark.

S. E. Marrs, A. B., '79, Editor of the Democrat, Secretary Board of Trustees, A. I. U., Fayetteville, Ark.

J. C. Marshall, A. M., '79, Lawyer, Little Rock, Ark.

Mack Martin, B. M. E., '91, Asst. Supt. of Mech. Arts, A. I. U.

Pearl Martin, B. S., '93, Teacher at Hot Springs, Ark. Collin Massie, A. B., '77, Teacher, Springdale College, Springdale, Ark.

J. F. Mayes, A. B., '83, Lumber Dealer, Fayetteville, Ark. W. M. Mellette, B. L., '77, Lawyer, Fort Smith, Ark.

Mai Middleton, A. B., '86, Mrs. R. Chasteen, Fort Smith, Ark.

H. P. Mobberly, C. E., '94, R. R. Civil Engineer, Longview, Texas.

Lucy B. Mock, B. A., '94, Teacher, Prairie Grove, Ark.

E. L. Mock, B. A., '94, Prairie Grove, Ark.

J. F. Moore, B. S., '93, Asst. Chemist, Agri. Exper. Sta., Fayetteville, Ark.

J. H. Moore, B. S., '93, Chemist, Solway Process Co., Syracuse, N. Y.

J. I. Moore, A. B., '81, Lawyer, County Judge, Phillips Co., Helena, Ark.

Lucy J. Moore, '75, Mrs. Ross, Cincinnati, Ark.

Mattie W. Morrow, B. S., '90, Teacher in Public School, Fayetteville, Ark.

Sara Mulholland, A. B., '86, Mrs. J. F. Mayes, Fayetteville, Ark.

W. H. Neal, B. L., '76, Lawyer, Van Buren, Ark.

A. J. Newman, B. A., '91, Teacher in Texas.

E. P. Notrebe, '85, Phisician, Springfield, Mo.

T. F. Oats, A. B., '82, Physician, Mexico, Texas.'

Ora Obenshain, B. S., '89, Teacher in Public School, Eureka Springs, Ark.

Ida Pace, B. A., '88, Asso. Prof. of English and Modern Languages, A. I. U.

C. C. Patton, B. A., '91, Lawyer, Cincinnati, Ohio.

L. Alice Patton, A. M., '79, Teacher, Prairie Grove, Ark, Mattie J. Patton, B. L. L., '80, Mrs. Dr. Chas. Jenkins. Denver, Ill.

Thos. A. Pettigrew, A. M., '78, Lawyer, State Senator, Charleston, Ark.

Harry Pharr, B. C. E., '93, Civil Engineer on the levee, Golden Lake, Ark.

J. S. Pharr, B. A., '92, Civil Engineer.

J. W. Pickel, A. B., '82, Physician for Crystal Plate Glass. Co., Crystal City, Mo.

R. T. Pittman, B. S., '94, Graduate Student, Fayetteville, Ark.

Alice Polson, B. S., '88, Mrs. W. C. Hutchinson, 1409, Pendleton Ave., St. Louis, Mo.

W. W. Powell, B. A., '88, Lawyer, Batesville, Ark.

Anna Putman, A. M., '75, Teacher in Public School, Favetteville, Ark.

G. W. M. Reed, Jr., B. L. L., '84, Lawyer, Los Angeles, Cal.

Lina Reed, A. B., '81, Fayetteville, Ark.

*Maggie Reed, A. B., '78.

O. S. Rieff, A. B., '81, Lawyer, Deputy State Auditor, Little Rock, Ark.

P. A. Rogers, A. B., '82, Farmer, Gravett, Benton Co., Ark, *Z. C. Ross, A. B., '80.

Lawrence Russell, A. B., '80, Lawyer, Russellville, Ark, G. C. Schoff, B. C. E., '88, Civil Engineer, Philadelphia, Pa.

G. C. Shell, B. L. L., '82, Lawyer, State Senator, Lake Village, Ark.

A. W. Shreve, B. C. E., '91, Farmington, Ark.

H. B. Shreve, B. C. E., '91, with Johnson & Co., Johns. town, Pa.

*W. D. Simms, B. L., '77. G. V. Skelton, B. C. E., '91, Prof. of Mathematics, Agricultural College, Corvallis, Or.

Ida Slagle, B. A., '89, Mrs. Gilbreath, Siloam Springs, Ark, Henry Stroup, A. B., '83, Lawyer, Paris, Ark.

Wm. S. Sutton, A. M., '78, Supt. Schools, Houston, Tex.

*Albert Taff, B. C. E., '90.

J. L. Taff, A. B., '84. Prin. Public School, Austin, Tex.

Mary Taff, B. A., '89, Mrs. G. V. Skelton, Corvallis, Or. Lou Taliaferro, B. L. L., '83, Stenographer, Kansas City, Mo.

E. L. Taylor, B. L., '76, Lawyer, Bentonville, Ark.

C. V. Teague, A. B., '79, Prosecuting Attorney, Hot Springs, Ark.

B. J. Tillar, B. A., '86, Capitalist, Fort Worth, Texas.

J. N. Tillman, B. L. L., '80, District Prosecuting Attorney, Fayetteville, Ark.

Lee Treadwell, B. C. E., '88, Asst. Eng. for J. A. C. Waddell, Kansas City, Mo.

S. C. Treadwell, B. A., '94, Lawyer, Tishomingo, I. T.

A. M. Vance, B. C. E., '93, Pierce City, Mo.

James Vandeventer, B. S., '93, Teacher, Armstrong Academy, Caddo, I. T.

S. F. Vaulx, B. A., '92, Memphis, Tenn.

Julia Vaulx, B. A. '92, Teacher Public School, Aspen, Col.

Annie Waggener, B. L., '77, Teacher, South McAlester.

W. J. Waggener, A. M., '76, Prof. Nat. Philosophy, Univ. of Colorado, Boulder, Col.

J. V. Walker, A. B., '77, Lawyer, Fayetteville, Ark.

C. A. Watson, A. B., '77, Teacher, Fayetteville, Ark.

J. J. Watson, A. B., '81, Teacher, California.

G. A. Warren, B. L., '88, Physician, Little Rock, Ark.

J. N. Wheeler, B. A., '90, Capitalist, Warren, Ark.

Naomi J. Williams, A. M., '80, Instructor in Ark. Ind. Univ. R. H. Willis, A. B., '88, Prof. of English and Modern Languages, A. I. U., Fayetteville, Ark.

A. C. Wood, B. M. E., '92, Engineer, Philadelphia, Pa.

B. F. Wood, B. E. E., '93, Elect. Eng., Philadelphia, Pa. C. D. Wood, A. B., '79, Associate Justice Supreme Court

of Ark. W. H. Woodall, A. B., '85, Pres. of Female College, Lake City, Fla.

C. D. Woolverton, B. L. L., '85, Prin. Schools, Sheridan, Ark.

Note.—The President will be pleased to receive information as to the address and occupation of those members of the Alumni for whom these data are wanting. The Alumni are especially requested to give notice of any omissions or errors in the foregoing list.

^{*}Deceased.

Bequests to the University.

Forms of bequests are given below in the hope that the friends of education will aid the Trustees and Faculty in their earnest efforts to enlarge and perpetuate the work of the University.

	1.	I	devise	and	bequeath	to	the	Trustees	of	the
Ark	an	sas	Indust	rial	University	at	Fay	etteville		
									dol	lars
for i	ts	per	manent	end	owment.					

- 2. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$30,000 for the endowment of a professorship of in said University.
- 4. I devise and bequeath to the Trustees of the Arkansas Industrial University at Fayetteville \$1,500 for the endowment of a scholarship in said University.

Appendir.

SPECIMEN EXAMINATION FOR ADMISSION TO FRESHMAN CLASS.

Examinations will be of the same general character as the following:

I. ARITHMETIC. I hour.

First, second, third, fourth and fifth questions same as in examination for admission to the Preparatory School, page 173.

- 6. See Wentworth's Arithmetic, page 236, example 9.
- 7. See Wentworth's Arithmetic, page 261, example 5.

II. ALGEBRA. 11/2 hours.

1. Simplify the following expressions by removing the parentheses and collecting like terms:

(a)—[b +
$$\langle$$
 a — (d + a) \rangle]
(b)—[5x—(11y—3x)]—[5y—(3x—6y)]

2. Resolve the following into factors: x^3+y^3 , x^4-y^4 , $x^2-19x+90$, 240+x- x^2 , and x^3-8 .

3. Find the greatest common divisor of $8x^3-2x^2-53x-39$ and $4x^3-3x^2-24x-9$.

4. Given:
$$2x+3y+4z=20$$
.
 $3x+4y+5z=26$.
 $3x+5y+6z=31$.

To find the value of x, y, z.

5. Find the cube root of

$$1-9x+39x^2-99x^3+156x^4-144x^5+64x^6$$
.

6. Find the value of

$$(\sqrt{7}+5\sqrt{3})(2\sqrt{7}-5\sqrt{3});$$

and the value of x in
 $14-\sqrt{x}-3x=6$, and
 $x^2+6x=27$.

III. PLANE GEOMETRY. 11/2 hours.

Demonstrate the following propositions:

- 1. The three perpendiculars from the middle points of the sides of a triangle meet in the same point.
- 2. An inscribed angle is measured by one-half of its intercepted arc.
- 3. Upon a given straight line, describe a segment of a circle which shall contain a given angle.
- 4. If two triangles have their sides respectively parallel, or respectively perpendicular, they are similar.
- 5. If from a point without a circle a secant and a tangent are drawn, the tangent is a mean proportional between the whole secant and the extreme segment.

IV. U. S. HISTORY. 11/2 hours.

Tell all about the following:

1. DeSoto. 2. The Battle of Guilford Courthouse. 3. The Missouri Compromise. 4. The Doctrine of State's Rights.

V. GENERAL HISTORY. I hour.

Tell all about the following:

Cyrus the Great. 2. The Battle of Salamis.
 Hannibal. 4. Alfred the Great. 5. Cardinal Richelieu.

VI. GEOGRAPHY. 11/2 hours.

- 1. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.
- 2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan. and Minnesota (one city each), and describe their situation.
- 3. Describe the climate and productions of Mexico.
- 4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.

VII. PHYSIOLOGY. 1 hour.

- 1. Describe the structure of the femur.
- 2. How does the blood-plasma differ from the blood serum?
 - 3. Describe the formation of a blood clot.
- 4. Define the terms "afferent," "efferent," "voluntary," "involuntary," "reflex."
- 5. Name and give the most important characteristics of eight of the principal tissues of the body.

VIII. LATIN. 2 hours.

Translate Cæsar's Gallic War, Book I., chapter 22, from prima luce to abstinebat.

- I. Give principal parts of abesset, accurrit, teneri, cognovisse, instruit.
 - 2. Explain cases of luce, equo, quem, ei, tempore.
- 3. Explain uses of modes in teneretur, teneri, fieret.
 - 4. Compare prima, summus, proximum, longius.
- 5. Give the whole indicative mode of *voluerit*, and the whole subjunctive of *abesset*, and translate the first person of each tense.
 - 6. Decline passibus, eum, quem, insignibus, uno.
 - 7. Parse hostium, occupari.

Translate Book II., chapter 32, from ad hac to dixerunt.

Translate into Latin:

1. He will order the lieutenant to send soldiers as a relief to our men. 2. We are so many in number that we can easily keep their army from the march. 3. If they make peace with us, we shall go into that part where they wish us to be. 4. We cannot see the mountain, although it is of great height. 5. We shall march through Geneva at sunset, because we are not more than 20 miles distant.

Besides this, an oral examination is required.

SPECIMEN EXAMINATION FOR ADMISSION TO FIRST YEAR IN THE PREPARATORY SCHOOL.

Examinations will be of the same general character as the following:

I. ARITHMETIC THROUGH PERCENTAGE, 2 hours.

1. A boy runs 3.876 miles, dropping a piece of paper every 4.75 feet. How many pieces does he drop?

Analysis: In one mile there are 5280 feet, and in 3.876 miles there are 3.876 times 5280 feet=20,-465.28 feet. If in 4.75 feet he drops one piece, in 20,465.28 feet he will drop as many pieces as 4.75 is contained in 20,465.28 feet, which is 4308 papers.

- 2. Reduce $\frac{3.6.5}{5.11}$ to its lowest terms.
- 3. A owns three-fifths of a ship worth \$25,748, B one-fourth of the remainder, C one-eighth of the amount belonging to A and B, and D owns what is still left. What is the value of D's share? Give full analysis.
- 4. Find cost of papering a room 32 feet long, 22 feet wide, 13 feet high, with paper 18 inches wide, 8 yards in a roll, at \$1.25 a roll, if 50 square yards be allowed for doors, windows and base boards.
- 5. The longitude of New York is 74° west, that of Paris is 2° 20' east. When it is fifteen minutes past 10 a.m. in New York, what is the time in Paris?
- 6. A merchant lost 25 per cent by selling flourat \$6.00 per barrel. If he had sold it at \$9.00 per

barrel, what would have been the gain per cent?

7. What is the interest on \$500.25 for three years, three months and six days at 6 per cent?

II. GRAMMAR. 2 hours.

- I. Name and define all the parts of speech.
- 2. Name and define all the different kinds of pronouns, all the different kinds of participles, and give an example of each kind.
- 3. Give three rules for forming the possessive case of nouns, with example of each. What is the possessive case of *conscience*?
- 4. Analyze the following sentences: 1. The boy that you saw is my younger brother. 2. One soldier was present when the roll was called.

III. GEOGRAPHY. I hour.

- I. Name in their order twenty rivers flowing into the Atlantic Ocean or its arms, between the Bay of Fundy and the Florida Keys.
- 2. Name the principal cities of Louisiana, Texas, Ohio, Illinois, Michigan, and Minnesota (one city each), and describe their situation.
- 3. Describe the climate and productions of Mexico.
- 4 and 5. What and where are the following? Give exact locations: Aconcagua, Aral, Baikal, Bothnia, Ceylon, Delhi, Farewell, Formosa, Hecla, Munich, Ponchartrain, Sunda, Verde, Volga, Yukon.

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